THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY									
P.S.C. Mo. No.	6	Sec.	4	2nd 3rd	Revised Sheet No. 21				
Canceling P.S.C. Mo. No.	6	Sec.	4	1st 2nd	Revised Sheet No. 21				
For ALL TERRITO	DRY								
	DEMAND-S	SIDE INVESTMI	ENT MECHAN	IISM RIDER					
		SCHEDU	LE DSIM						

APPLICABILITY

This rider is applicable to all non-lighting kilowatt-hours (kWh) of energy supplied to customers under the Company's retail rate schedules, excluding kWh of energy supplied to "opt-out" customers. The Demand Side Investment Mechanism (DSIM) Rider will be calculated and applied separately to the following rate classes: (1) Residential Service (NS-RG, TC-RG, TP-RG) and (2) non-Residential Service, which includes: (a) Small General Service (NS-GS, TC-GS and TP-GS), (b) Large General Service (NS-LG and TC-LG), (c) Small Primary Service (NS-SP and TC-SP), (d) Large Power Service (LP) and (e) Transmission Service (TS).

For MEEIA Cycle 1 2021-223 Plan

Charges in this DSIM Rider reflect costs associated with implementation of the Missouri Energy Efficiency Investment Act (MEEIA) Cycle 1 Plan and any remaining unrecovered costs from prior MEEIA Cycle Plans or other approved energy efficiency plans. Those costs include:

- Program Costs, Throughput Disincentive (TD), and Earnings Opportunity Award (EO) (if any) for the MEEIA Cycle 1 Plan, as well as Program Costs, TD and EO for commission approved business program projects completed for prior MEEIA Cycle Plans and any earned Earnings Opportunity earned (and ordered) attributable to prior MEEIA Cycle Plans.
- 2) Reconciliations, with interest, to true-up for differences between the revenues billed under this DSIM Rider and total actual monthly amounts for:
 - i. Program Costs incurred in Cycle 1 and/or remaining unrecovered amounts for prior MEEIA Cycle Plans or other approved energy efficiency plans.
 - ii. TD incurred in Cycle 1, and/or remaining unrecovered amounts for prior MEEIA Cycle Plans.
 - iii. Amortization of any Earnings Opportunity Award (EO) ordered by the Missouri Public Service Commission (Commission), and/or remaining true-ups or unrecovered amounts for prior MEEIA Cycle Plans.
- 3) Any Ordered Adjustments. Charges under this DSIM Rider shall continue after the anticipated 12-month plan period of MEEIA Cycle 1 until such time as the costs described in items 1) and 2) above have been billed.

Charges arising from the MEEIA Cycle 1 Plan that are the subject of this DSIM Rider shall be reflected in one "DSIM Charge" on customers' bills in combination with any charges arising from a rider that is applicable to post-MEEIA Cycle 1 Plan demand-side management programs approved under the MEEIA. This will include any unrecovered amounts for Program Costs, unrecovered TD from prior MEEIA Cycle Plans and any Earnings Opportunity, etc. earned / remaining from prior MEEIA Cycle Plans that is expected to begin recovery in January 1, 2022.

DEFINITIONS

As used in this DSIM Rider, the following definitions shall apply:

"Cycle 1 Earnings Opportunity" (EO) means the annual incentive ordered by the Commission based on actual spending, participation targets and additional metrics defined in the EO table, Appendix F to Exhibit KD-1. The Company's EO will be \$369,289 if 100% achievement of the planned targets are met. EO is capped at \$ 480,076. Potential Earnings Opportunity adjustments are described on Sheet No. 1. The Earnings Opportunity Matrix outlining the payout rates, weightings, and caps can be found at Sheet No. 1.

DATE OF ISSUE MayDecember 2, 2022 DATE EFFECTIVE Juneanuary 1, 20223

ISSUED BY Charlotte Emery, Sr. Director of Rates and Regulatory Affairs, JOPLIN, MO

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"Deemed Savings Table" me that quantifies gross energy available, as outlined in Appo	/ and deman endix B to the	nd savings associ e MEEIA Cycle 1 F	ated with Cor Plan.	mpany-specifi	c Measure parameters w
"Effective Period" (EP) mea months beginning with the Ja					
"Evaluation Measurement & the process of the Company' and demand savings, cost et	s Program de	livery and oversig	ht and to estim	ate and/or ve	rify the estimated actual er
"Incentive" means any consi rebates, bill credits, paymer adoption of Program Measur	nts to third pa				
"Measure" means the Energy 1 Plan.	y Efficiency m	neasures describe	d for each pro	gram in the A	ppendix C to the MEEIA
"MEEIA Cycle 1 Plan" consi					
"Programs" means MEEIA C with the Commission's rule 2			f Sheet No. 27	through 27I_	and added in accord
"Program Costs" means an program design; administrati measurement, and verification	on; delivery;	end-use measures	and incentive	payments; a	dvertising expense; evalua
"Short-Term Borrowing Rate debt during the month.	" means a ra	te equal to the we	ighted averag	e interest paid	d on the Company's short
"Throughput Disincentive" (T MEEIA programs. The detail					
"TRM" means the Technical portfolio.	Resource Ma	anuals utilized to e	stimate the sa	vings for the	measures included in the
DETERMINATION OF DSIM	RATES				
The DSIM during the application follows:	able EP is a	dollar per kWh ra	te for each ap	plicable Servi	ce Classification calculate

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				D-SIDE INVESTM SCHEDU For MEEIA Cycle	JLE DSIM				
			DS	IM = [NPC + NTC) + NEO + NO	A] / PE			
Where:									
	NPC =	Net Progr	am Costs for	the applicable EF	o as defined be	elow,			
				NPC = P	PC + PCR				
	PPC =		Program Cost during the app		equal to Prog	gram Costs pro	jected by the Company to		
	PCR =	revenues the actua through th	billed resultin I Program Cos ne end of the p	ng from the applic sts incurred throu previous EP due to	cation of the D igh the end of timing of adju	SIM through the the previous Ef stments). Such	ce, if any, between the Ne end of the previous EP (which will reflect projecti amounts shall include mon nonthly Short-Term Borrov		
	NTD =	Net Throughput Disincentive for the applicable EP as defined below,							
				NTD = P	TD + TDR				
	PTD =						y the Company to be incure TD, see The MEEIA Cyc		
	TDR = Throughput Disincentive Reconciliation is equal to the cumulative difference, if any, between the N revenues billed during the previous EP resulting from the application of the DSIM and the Company TD through the end of the previous EP calculated pursuant to the MEEIA Cycle 1 application, applicable (which will reflect projections through the end of the previous EP due to timing adjustments). Such amounts shall include monthly interest on cumulative over- or under-balance at the Company's monthly Short-Term Borrowing Rate.								
	NEO =	Net Earni	ngs Opportun	ity for the applica	ıble EP as defi	ned below,			
				NEO = E	EO + EOR				
	EO = Earnings Opportunity is equal to the Earnings Opportunity Award monthly amortization multiplied the number of billing months in the applicable EP, plus the succeeding EP. MEEIA Cycle 1 month amortization shall be determined by dividing the Earnings Opportunity Award by the number of billimonths from the billing month of the first DSIM after the determination of the annual Earnin Opportunity Award and 12 calendar months following that first billing month.								
	EOR =								

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NOA = Net Ordered Adjustment for the applicable EP as defined below,

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NOA = OA + OAR

- OA = Ordered Adjustment is the amount of any adjustment to the DSIM ordered by the Commission as a result of prudence reviews and/or corrections under this Rider DSIM. Such amounts shall include monthly interest at the Company's monthly short-term borrowing rate.
- OAR = Ordered Adjustment Reconciliation is equal to the cumulative difference, if any, between the NOA revenues billed during the previous EP resulting from the application of the DSIM and the actual OA ordered by the Commission through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest on cumulative over- or under-balances at the Company's monthly Short-Term Borrowing Rate.
- PE = Projected Energy, in kWh, forecasted to be delivered to the customers to which the Rider DSIM applies during the applicable EP.

The DSIM components and total DSIM applicable to the individual Service Classifications shall be rounded to the nearest \$0.00001.

Allocation of MEEIA Cycle 1 Program Costs, TD and EO for each rate schedule for the MEEIA Cycle 1 Plan will be allocated as outlined in EO-2022-0078.

This Rider DSIM shall not be applicable to customers that have satisfied the opt-out provisions contained in Section 393.1075.7, RSMo or the Low-income exemption provisions described herein.

CALCULATION OF TD:

Monthly Throughput Disincentive = the sum of the Throughput Disincentive Calculation for all programs applicable to (1) Residential Service (NS-RG, TC-RG, TP-RG): (2) Small General Service (NS-GS, TC-GS and TP-GS), (3) Large General Service (NS-LG and TC-LG), (4) Small Primary Service (NS-SP and TC-SP); (5) Large Power Service (LP); and (6) Transmission Service (TS)

The TD for each Service Classification shall be determined by the following formula:

$TD = [MS \times TBR \times NTGF]$

Where:

- TD = Throughput Disincentive, in dollars, to be collected for a given month, for a given Service Classification.
- MS = Monthly Savings, is the sum of all Programs' monthly savings, in kWh, for a given month, for a given Service Classification.
- TBR = Tail Block Rate. Applicable monthly Tail Block Rate for each applicable Service Classification.

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- DEMAND-SIDE INVESTMENT MECHANISM RIDER SCHEDULE DSIM
 For MEEIA Cycle 1 2021-223 Plan
- NTGF = Net-To-Gross Factor. For the EP, all TD calculations will assume a NTGF of 0.8 until such time as a NTGF is determined through EM&V for that EP. Thereafter, for each given EP, the NTGF determined through EM&V will be used prospectively starting with the month in which the Earnings Opportunity Award is determined.
- MS = The sum of all Programs' Monthly Savings in kWh, for a given month, for a given class. The Monthly Savings in kWh for each Program shall be determined by the formula:

$MS = (MAS_{CM} + CAS_{PM} - RB) \times LS + HER$

- RB = Rebasing Adjustment. The Rebasing Adjustment shall equal the CAS applicable as of the date used for the MEEIA normalization in any general rate case resulting in new rates becoming effective during the accrual and collection of TD\$ pursuant to MEEIA Cycle 1. In the event more than one general rate case resulting in new rates becoming effective during the accrual and collection of TD\$ pursuant to MEEIA Cycle 1, the Rebasing Adjustment shall include each and every prior Rebasing Adjustment calculation.
- LS = Load Shape. The Load Shape is the monthly load shape percent for each program.
- MC = Measure Count. Measure Count, for a given month, for a given class, for each measure is the number of each measure installed in the current calendar month.
- ME = Measure Energy. Measure Energy will be determined as follows, for each Measure:
 - For Measures not listed under those programs listed in Liberty's MEEIA Cycle 1 Plan, the ME is the annual total of normalized savings for each measure at customer meter per measure defined in the TRM or in the cost-effectiveness analysis.
 - ii. For Measures in MEEIA Cycle 1 programs, the ME will be the annual value attributable to the installations reported monthly by the program implementer.
- MAS = The sum of MC multiplied by ME for all measures in a program in the current calendar month.
- CAS = Cumulative sum of MAS for each program for MEEIA Cycle 1.
- CM = Current Calendar month
- PM = Prior calendar month
- HER = Monthly kWh savings for the Home Energy Reports and Income-Eligible Home Energy Reports programs measured and reported monthly by the program implementer.

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EARNINGS OPPORTUNITY AWARD DETERMINATION

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The MEEIA Cycle 1 EO Award shall be calculated using the matrix in the MEEIA Cycle 1 Plan. The cumulative EO will not go below \$0. The EO target at 100% is \$ \$369,289. The EO cannot go above \$480,076. The cap is based on current program levels. If Commission-approved new programs are added during the EP and any program plan extensions through 20223, the Company may seek Commission approval to have the targets for the cap of the EO scale proportionately to the spending and participation targets.

FILING

After the initial DSIM Rider rate adjustment filing, the Company shall make a DSIM Rider rate adjustment filing to take effect each January 1 and July 1 under the Term of this MEEIA Rider. DSIM Rider rate adjustment filings shall be made at least sixty (60) days prior to their effective dates.

PRUDENCE REVIEWS

A prudence review shall be conducted no less frequently than at twenty-four (24) month intervals in accordance with 20 CSR 4240-20.093(11). Any costs, which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this DSIM Rider, shall be returned to customers through an adjustment in the next DSIM Rider rate adjustment filing and reflected in factor OA above.

DISCONTINUING THE DSIM

The Company reserves the right to discontinue the entire MEEIA Cycle 1 portfolio, if the Company determines that implementation of such programs is no longer reasonable due to changed factors or circumstances that have materially and negatively impacted the economic viability of such programs as determined by the Company, upon no less than thirty days' notice to the Commission. As a result of these changes, the Company may file to discontinue this DSIM. Similar to Program discontinuance, the Company would file a notice indicating that it is discontinuing the DSIM Rider. This notice would include a methodology for recovery of any unrecovered Program Costs and TD.

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DEMAND SIDE INVESTMENT MECHANISM CHARGE

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As approved in Commission Case No. EO-2022-0078 MEEIA Cycle 1 Filing.

MEEIA 20223 DSIM Components (MEEIA Cycle 1 20223 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)	Total DSIM (\$/kWh)
Residential Service	\$0.00080	\$0.00007	n/a	n/a	\$0.00087
Non-Residential Service	\$0.00115	\$0.00015	n/a	n/a	\$0.00130