P.S.C. Mo. No	6	Sec		1st	Revised Sheet No. 21
Canceling P.S.C. Mo. No	6	Sec	4		Original Sheet No. <u>21</u>
For ALL TERRITORY					
	DEMAND-SIDE	INVESTMENT I	MECHANISM	I RIDER	
		SCHEDULE DS	SIM		
	For Mi	EEIA Cycle 1 20	21-22 Plan		

#### **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 (RG) and (2) non-Residential Service, which includes: (a) Commercial Service (CB), (b) Small Heating Service (SH), (c) General Power Service (GP), (d) Total Electric Building Service (TEB), (e) Feed Mill and Grain Elevator Service (PFM) and (f) Large Power Service (LP).

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:

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

"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.

THE EMPIRE DISTRICT	ELECTRIC COMPA	ANY d.b.a. LIBI	ERTY	
P.S.C. Mo. No.	6	Sec.	4	Original Sheet No. 21a
Canceling P.S.C. Mo. N	No	Sec.		Original Sheet No
For <u>ALL TERRI</u>	TORY			
		SCHEDU	ENT MECHANISM LE DSIM e 1 2021-22 Plan	RIDER
	nergy and demand	savings assoc	ciated with Compar	ny's TRM or cost effectiveness analysis ny-specific Measure parameters where
				SIM is to be effective, i.e., the 12 billing December billing month of 2022.
	pany's Program deli	very and oversi	ght and to estimate	tudies and activities intended to evaluate and/orverify the estimated actual energy Programs.
	yments to third par			t not limited to, buy downs, markdowns, and education, which encourages the
"Measure" means the E 1 Plan.	nergy Efficiency me	asures describ	ed for each prograr	m in the Appendix C to the MEEIA Cycle
				described in the MEEIA Cycle 1 Filing, A Cycle 1 Plan under EO-2022-0078.
"Programs" means MEE with the Commission's	EIA Cycle 1 prograr rule 20 CSR 4240-20	ms listed in Tar ).094(4).	iff Sheet No. 27 thre	ough 27I and added in accordance
program design; admin	istration; delivery; er	nd-use measure	es and incentive pay	uding such items as program planning, yments; advertising expense; evaluation, ride technical resource manual.
"Short-Term Borrowing debt during the month.	Rate" means a rate	equal to the w	eighted average int	erest paid on the Company's short-term
				ith the successful implementation of the ed beginning in Tariff Sheet No.21c.
"TRM" means the Tech portfolio.	nical Resource Man	uals utilized to	estimate the savinç	gs for the measures included in the DSM
DETERMINATION OF	DSIM RATES			
The DSIM during the a follows:	pplicable EP is a do	ollar per kWh r	ate for each applica	able Service Classification calculated as

THE EMPIRE	DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY								
P.S.C. Mo. No	. 6 Sec. 4 Original Sheet No. 21b								
Canceling P.S	.C. Mo. No Sec Original Sheet No								
For Al	LL TERRITORY								
	DEMAND-SIDE INVESTMENT MECHANISM RIDER								
SCHEDULE DSIM For MEEIA Cycle 1 2021-22 Plan									
Where:	DSIM = [NPC + NTD + NEO + NOA] / PE								
	= Net Program Costs for the applicable EP as defined below,								
INIC	NPC = PPC + PCR								
PPC :	= Projected Program Costs is an amount equal to Program Costs projected by the Company to be								
110	incurred during the applicable EP.								
PCR	PCR = Program Costs Reconciliation is equal to the cumulative difference, if any, between the NPC revenues billed resulting from the application of the DSIM through the end of the previous EP and the actual Program Costs incurred 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.								
NTD	Net Throughput Disincentive for the applicable EP as defined below,								
	NTD = PTD + TDR								
PTD	D = Projected Throughput Disincentive is the Company's TD projected by the Company to be incurred during the applicable EP. For the detailed method for calculating the TD, see The MEEIA Cycle 1 Plan.								
TDR	TDR = Throughput Disincentive Reconciliation is equal to the cumulative difference, if any, between the NTD revenues billed during the previous EP resulting from the application of the DSIM and the Company's TD through the end of the previous EP calculated pursuant to the MEEIA Cycle 1 application, as applicable (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.								
NEO	= Net Earnings Opportunity for the applicable EP as defined below,								
	NEO = EO + EOR								
EO =	Earnings Opportunity is equal to the Earnings Opportunity Award monthly amortization multiplied by the number of billing months in the applicable EP, plus the succeeding EP. MEEIA Cycle 1 monthly amortization shall be determined by dividing the Earnings Opportunity Award by the number of billing months from the billing month of the first DSIM after the determination of the annual Earnings Opportunity Award and 12 calendar months following that first billing month.								
EOR	Earnings Opportunity Reconciliation is equal to the cumulative difference, if any, between the NEO revenues billed during the previous EP resulting from the application of the DSIM and the monthly amortization of the EO Award 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.								

THE EMPIRE DI	STRICT ELECTRIC COMF	PANY d.b.a. LIBI	ERTY		
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 21c
Canceling P.S.C	C. Mo. No	Sec.			Original Sheet No
For <u>ALL</u>	TERRITORY				
	DEMAND	-SIDE INVESTM	ENT MECHAN LE DSIM	ISM RIDER	
		For MEEIA Cycle	_	ın	
NOA -	Net Ordered Adjustmen	t for the applicab	Jo ED as dofina	d bolow	
NOA -	Net Ordered Adjustmen		a = OA + OAR	d below,	
OA =		ews and/or corre	ctions under th	is Rider DSIM.	ered by the Commission as a Such amounts shall include
OAR =	revenues billed during t ordered by the Commis	he previous EP ro sion through the o EP due to timing o	esulting from th end of the previ of adjustments).	e application of ous EP (which was . Such amounts	ce, if any, between the NOA fithe DSIM and the actual OA will reflect projections through shall include monthly interest t-Term Borrowing Rate.
PE =	Projected Energy, in klapplies during the appli		be delivered	to the custome	rs to which the Rider DSIM
The DSIM comp nearest \$0.0000		applicable to the	individual Serv	vice Classificati	ons shall be rounded to the
	EEIA Cycle 1 Program Co ined in EO-2022-0078.	sts, TD and EO	for each rate so	chedule for the	MEEIA Cycle 1 Plan will be
	I shall not be applicable to Mo or the Low-income exe				ovisions contained in Section
CALCULATION	OF TD:				
(1) Residential S	Service (RG): (2) Commerc	cial Service (CB),	(3) Small Heati	ng Service (SH	for all programs applicable to ), (4) General Power Service (PFM); and (7) Large Power
The TD for each	Service Classification sh	all be determined	by the followir	ng formula:	
Where:		TD = [MS x T	BR x NTGF]		
TD =	Throughput Disincention Classification.	ve, in dollars, to	be collected	for a given r	nonth, for a given Service
MS =	Monthly Savings, is the Service Classification.	sum of all Progra	ams' monthly sa	avings, in kWh,	for a given month, for a given

TBR = Tail Block Rate. Applicable monthly Tail Block Rate for each applicable Service Classification.

THE EMPIRE DIS	STRICT ELECTRIC COMP	ANY d.b.a. LIBE	RTY				
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 21d		
Canceling P.S.C.	Mo. No	Sec.			Original Sheet No		
For ALL	TERRITORY						
	DEMAND	-SIDE INVESTME	_	ISM RIDER			
SCHEDULE DSIM							
For MEEIA Cycle 1 2021-22 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 Savings in kWh for each				or a given class. The Monthly		

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

- 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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P.S.C. Mo. No	6	Sec	4		Original Sheet No. 21e			
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For ALL TERRITORY								
	DEMAND-SIDE	INVESTMENT	MECHANIS	SM RIDER				
		SCHEDULE DS	SIM					
For MEEIA Cycle 1 2021-22 Plan								

#### **EARNINGS OPPORTUNITY AWARD DETERMINATION**

THE EMPIRE DISTRICT ELECTRIC COMPANY & b a LIBERTY

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 2022, the Company may seek Commission approval to have the targets for the cap of the EO scale proportion ately 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.

THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY								
P.S.C. Mo. No.	6	Sec.	4		Original Sheet No. 21f			
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For ALL TE	RRITORY							
	DEMAND-SIC	DE INVESTMEN	NT MECHANIS	SM RIDER				
İ		SCHEDULE	E DSIM					
	For	MEEIA Cycle 1	1 2021-22 Plan	l				

# **DEMAND SIDE INVESTMENT MECHANISM CHARGE**

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

# **MEEIA 2022 DSIM Components**

(MEEIA Cycle 1 2022 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)	Total DSIM (\$/kWh)
RG – Residential Service	\$0.00080	\$0.00007	n/a	n/a	\$0.00087
CB – Commercial Service	\$0.00115	\$0.00015	n/a	n/a	\$0.00130
SH – Small Heating Service	\$0.00115	\$0.00015	n/a	n/a	\$0.00130
GP – General Power Service	\$0.00115	\$0.00015	n/a	n/a	\$0.00130
TEB – Total Electric Building Service	\$0.00115	\$0.00015	n/a	n/a	\$0.00130
PFM – Feed Mill and Grain Elevator Service	\$0.00115	\$0.00015	n/a	n/a	\$0.00130
LP – Large Power Service	\$0.00115	\$0.00015	n/a	n/a	\$0.00130