P. S. C. MO. SCH	EDULE NO	12 th	Revised	SHEET NO. 1
CANCELLING SCH	EDULE NO. 1	11 th	Revised	SHEET NO. 1 (M
	MISSOURI SERV			
	*TABLE OF (CONTENTS		
	ELECTRIC POWER	R PURCHASI	ES	
Sections				Sheet No.
A. Electric Power Pu Facilities	irchases from Qual	ifying		2
B. Electric Power Pu Net Metering Unit	rchases from Qual	ified		8
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*Indicates Change

FILED Missouri Public Service Commision

CANCELLED June 30, 2013	P.S.C. Mo.DATE OF IS	SUE_	August 14,	2003	DATE EFFECTIVE	Contra	August 28, ember 13	2002
Missey M. Dublis	SSUED BY		W. Mueller	Chairman		St.	Louis,	Missouri
ET-2013-0546; JE-2013-0	582	NAME	E OF OFFICER	TITLE			ADDR	ESS

1.5.C. MO., ILL.	-		11th Revised	SHEET NO,
	CANCELLING SCHEDULE NO.		10th Revised	SHEET NO.
APPLYING TO		MISSOURI	SERVICE AREA	Missouri Pu ervice Comm
1				REC'D JAN 1:
	ELECTRIC POWER	PURCHASES F	ROM QUALIFYING FACI	LITIES
e 1 r	pplication. This ta lectric energy and c eferred to as "Custo 0.060 of the Missour	apacity frommer") unde	om Qualifying Facil r the provisions o	ities (hereina
	tandard Rates for Pu sustomer with a design			
1	. Non-Time - Differe	entiated Ene	ergy Rate	
	Summer Rate (Appl through September)		ng 4 monthly billin	ng periods of
	Summer		1.78¢ per kWh	
	Winter Rate (App October through Ma		ring 8 monthly bi	lling periods
	Winter		1.42¢ per kWh	
2	. <u>Time-Differentiate</u>	ed Energy Ra	ite	
	Summer Rate (Appl through September)		ng 4 monthly billin	ng periods of
	Weekday (10 AM - 1 Weekday (10 PM - 1	LO P M)	2.40¢ per kWh	
	Weekday (10 PM -) Saturday, Sunday,	LOAM) Heliday (1)	1.39¢ per kWh	
	Saturday, Sunday,	noriday (1)	1.52¢ per kwn	
	<u>Winter Rate</u> (App October through Ma		ring 8 monthly bi	lling periods
	Weekday (10 AM - 1	LO PM)	1.51¢ per kWh	
	Weekday (10 PM - 1	0 AM)	1.41¢ per kWh	
	Saturday, Sunday,	Holiday (1)	1.34¢ per kWh	CANO.
	· · · · ·		ear's Day, Good Fri nce Day, Labor Day,	
	Thanksgiving Eve Day, and	Day, Thank Christmas	adjuing Friday Chr	intera dia -
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				souri Public Se Commissi

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P.S.C. Mo. DATE OF ISSUE	January 15,	2003	DATE EFFECTIVE	February 15, 2003
ISSUED BY C. W	. Mueller	Chairman	& CEO	St. Louis, Missouri
NAM	e of officer	TITLE		ADDRESS

		UNION ELECT	RIC COMPANY	ELECTRIC SERV	ICE	
۰. ۲	~ *	P.S.C. MO., ILL. C.	C., IA. ST. C. C. SCHEDULE NO.	<u>1</u>	10th Revised	SHEET NO. 1 (M)
			CANCELLING SCHEDULE NO.	1	9th Revised	SHEET NO. 1 (M)
		APPLYING TO		MISSOURI SE	RVICE AREA	
RECENED	WISSOURI Wission	I. Ap el re 20 * II. <u>St</u> 1.	ELECTRIC POWER I plication. This ta ectric energy and c ferred to as "Custo .060 of the Missouri andard Rates for Pu stomer with a design <u>Non-Time - Differe</u> <u>Summer Rate</u> (Appl: through September) Summer	MISSOURI SE PURCHASES FROM riff applies t apacity from (omer") under t i Public Servi rchase. The s n capacity of entiated Energy icable during licable during	RVICE AREA QUALIFYING FACILITI to purchases of elec Qualifying Facilitie the provisions of Ru ce Commission. standard rates for p 100 kW or less are a <u>y Rate</u> 4 monthly billing p 1.46¢ per kWh ig 8 monthly billin 1.40¢ per kWh	ES tric energy or s (hereinafter le 4 CSR 240- urchase from a s follows: eriods of June
		*Indicat	<pre>through September) Weekday (10 AM - 1 Weekday (10 PM - 1 Saturday, Sunday, Winter Rate (App October through Ma Weekday (10 AM - 1 Weekday (10 PM - 1 Saturday, Sunday, (1) Legal Holiday Memorial Day, Thanksgiving Eve Day, and</pre>	10 PM) 10 AM) Holiday (1) licable durin ay) 10 PM) 10 AM) Holiday (1) ys of New Year , Independence	<pre>1.33¢ per kWh 1.28¢ per kWh ag 8 monthly billir 1.51¢ per kWh 1.40¢ per kWh 1.27¢ per kWh 's Day, Good Friday, Day, Labor Day, ving Friday, Christm FILE FEB 15 2</pre>	ng periods of as D 001 RI

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P.S.C. Mo. DATE	OF ISSUE Januar	<u>y 16, 2001</u>	OATE EFFECTIVE	February 15, 2001
ISSUED BY	C. W. Mueller	President	& CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE		ADDRESS

UNION ELECTRIC COMPANY ELECTRIC SERVICE

P. S. C. MO.,	ILL. C. C., IA. ST. C. C. SCHEDULE NO1	9th RevisedSHEET NO. 1(M
	CANCELLING SCHEDULE NO	8th Revised From strates of the
APPLYING TO		RVICE AREA
	ELECTRIC POWER PURCHASES	FROM QUALIFYING FACILITIES 1999
J.	Application. This tariff apple electric energy and capacity f	ies to purchases of electric energy or rom Qualifying facilities (Neternativer der the provisions of Rule 4 CSR 240-
*II.		The standard rates for purchase from a y of 100 kW or less are as follows:
	1. Non-Time - Differentiated	Energy Rate
-	Summer Rate (Applicable du through September)	aring 4 monthly billing periods of June
-	Summer	1.56¢ per kWh
	Winter Rate (Applicable October through May)	during 8 monthly billing periods of
	Winter	1.56¢ per kWh
	2. Time-Differentiated Energy	7 Rate
	Summer Rate (Applicable du through September)	ring 4 monthly billing periods of June
	Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holiday	1.38¢ per kWh
	<u>Winter Rate</u> (Applicable October through May)	during 8 monthly billing periods of
	Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holiday	1.55¢ per kWh
	(1) Legal Holidays of New Memorial Day, Indepen Thanksgiving Day, Tha Day, and Christmas Da	dence Day, Labor Day, nksgiving Friday, Christmas Eve
	CANCEL	
	FEB 1 5 2001	
*Indi	By NOTERP Cates Chang Public Service Comm MISSOURI) (C) ission FILED FEB 1 4 1999
P.S.C. Ma. D.	ATE OF ISSUE January 15, 1999	DATE EFFECTIVE February 14, 1999
ILL. C.C. D	ATE OF ISSUE	
IA.ST.C.C. D	ATE OF ISSUE	

P. S. C. MO., 1	LL. C. C., IA. ST. C. C. SCHEDULE NO.		h Revised SHEET NO. h Revised RECENSE	<u>1(M</u>
	CANCELLING SCHEDULE NO.		h Revised n E L S HER OD	<u>UI (M</u>
APPLYING TO	<u>MIS</u>	SOURI SERVICE AREA	JAN 5 1997	
		URCHASES FROM QUALIE	FYING FACILITIES	
I.	electric energy and ca	pacity from Qualify mer") under the pro	hases of electrony for the comparison of Rule 4 CSR 2 mission.	feer
*II.			d rates for purchase fro or less are as follows:	
	1. <u>Non-Time - Differ</u> e	ntiated Energy Rate	<u>1</u>	
	Summer Rate (Appli through September)	_	chly billing periods of	June
	Summer	1.60¢	per kWh	
	<u>Winter Rate</u> (App) October through Ma		monthly billing periods	of
	Winter	1.48¢	per kWh	
	2. <u>Time-Differentiate</u>	d Energy Rate		
	<u>Summer Rate</u> (Appli through September)		chly billing periods of	June
	Weekday (10 AM - 1 Weekday (10 PM - 1 Saturday, Sunday,	.0 PM) 2.22¢ .0 AM) 1.24¢ Holiday (1) 1.30¢	per kWh per kWh per kWh	
1	<u>Winter Rate</u> (App October through Ma		monthly billing periods	of
	Weekday (10 PM - 1	10 PM) 1.78¢ 10 AM) 1.35¢ Holiday (1) 1.27¢	per kWh	
	Memorial Day,			
l		CANCELLED		
		- A 1000	FILED	
		FEB 1 4 1999 By Quin RS # (M) Iblic Service Commis MISSOURI	sion FEB 1 4 1997	
*Indi	Cates Change	MISSOURI	NO. PUBLIC SERVICE CO)Wr:
P.S.C. Mo. DA	TE OF ISSUE January 15,	1997 OATE EFF	FECTIVE February 14, 19	97
ILL. C.C. DA	TE OF ISSUE	DATE EF	FECTIVE	
IA.ST.C.C. DA	TE OF ISSUE	DATE EF/		

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P.S.C.MO., LL.C.C., M. ST.C. C.SOREONE NO1	UNION ELECT	RIC COMPANY ELECTRIC S	SERVICE	
APPLYENG TO PRESENTED AREA PRECENCED JAN 17 1995 ELECTRIC POWER PURCHASES FROM QUALIFYING FACILITYES ELECTRIC POWER PURCHASES FROM QUALIFYING FACE SUMMER FATE (Applicable during 4 monthly billing periods of June Through September) Weekday (10 AM - 10 PM) 1.26C per kWh Winter Commer Fate (Applicable during 4 monthly billing periods of June Through September) Weekday (10 AM - 10 PM) 1.26C per kWh Saturday, Sunday, Holiday (1) 2.26C per kWh Saturday, Sunday, Holiday (1) 2.26C per KWH Saturday, Sunday	P. S. C. MO., ILL. C			
			6th Revised	SHEET NO. <u>1</u>
ELECTRIC POWER PURCHASES FROM QUALIFYING PACILIFYES MOLYPERSENTER COMM ADDICATION This tariff applies to purchases of electric energy and capacity from Qualifying Pacilities (hereinafter referred to as "Customer") under the provisions of Rule 4 CSR 240- 20.060 of the Missouri Public Service Commission. I. Standard Rates for Purchase. The standard rates for purchase from a customer with a design capacity of 100 kW or less are as follows: I. Non-Time - Differentiated Energy Rate Summer 1.420 per kWh Minter 1.660 per kWh Minter 1.660 per kWh Vinter 1.660 per kWh Summer Aste (Applicable during 4 monthly billing periods of June through September) Weekday (10 RM - 10 PM) 1.770 per kWh Weekday (10 RM - 10 PM) 1.210 per kWh Saturday, Sunday, Holiday (1) 1.560 per kWh Saturday, Christmas Eve Day, and Christmas Day. Holiday Christmas Eve Day, And Christmas Day. Holiday Christmas Eve Day, And Christmas Day.	APPLYING TO	MISSOURI SER	VICE AREA	RECEIVED-
ELECTRIC POWER PURCHASES FROM QUALIFYING PACILIFYISE MULTURSERVICE COMM ADDITIONATION TO PUBLICASE OF PLOTAGES OF electric energy and capacity from Qualifying Pacilities (hereinafter referred to as "Customer") under the provisions of Rule 4 CSR 240- 20.060 of the Missouri Public Service Commission. * II. Standard Rates for Purchase. The standard rates for purchase from a customer with a design capacity of 100 kW or less are as follows: 1. Non-Time - Differentiated Energy Rate Summer 1.420 per kWh Winter 1.680 per kWh 2. Time-Differentiated Energy Rate Summer Rate (Applicable during & monthly billing periods of June through September) Weekday (10 PM - 10 PM) 1.210 per kWh Saturday, Sunday, Holiday (1) 1.256 per kWh Winter Rate (Applicable during & monthly billing periods of October through May) Weekday (10 PM - 10 PM) 1.210 per kWh Saturday, Sunday, Holiday (1) 1.556 per kWh Saturday, Sunday, Holiday (1) 1.560 per kWh Saturday, Sunday, Holiday (1) 1.560 per kWh Saturday, Sunday, Holiday Saturday, Sunday, Holiday Sat			-	
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MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWECTON MULTURESCHWEST MULTURESCHWE		FIRCTOIC DOWED DUDCHASES	FROM OUNT FYING FACTLIN	TPS
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customer with a design capacity of 100 kW or less are as follows: 1. Non-Time - Differentiated Energy Rate Summer Rate (Applicable during 4 monthly billing periods of June through September) Winter 1.42¢ per kWh Time-Differentiated Energy Rate Summer Rate (Applicable during 8 monthly billing periods of June through September) Weekday (10 AM - 10 PM) Saturday, Sunday, Holiday (1) Saturday, Sunday, Holiday (1) Keekday (10 AM - 10 PM) Winter Rate (Applicable during 8 monthly billing periods of June through September) Weekday (10 AM - 10 PM) Saturday, Sunday, Holiday (1) Saturday, Holiday (1) Saturd	ele rei	ectric energy and capacity fr ferred to as "Customer") unde	om Qualifying Faciliti er the provisions of R	es (hereinafte
Summer Rate (Applicable during 4 monthly billing periods of June through September) Summer 1.42¢ per kWh Minter Rate (Applicable during 8 monthly billing periods of October through May) Winter 1.68¢ per kWh 2. Time-Differentiated Energy Rate Summer Rate (Applicable during 4 monthly billing periods of June through September) Weekday (10 PM - 10 PM) 1.77¢ per kWh Weekday (10 PM - 10 PM) 1.21¢ per kWh Saturday, Sunday, Holiday (1) 1.26¢ per kWh Saturday, Sunday, Holiday (1) 1.26¢ per kWh Weekday (10 PM - 10 PM) 1.95¢ per kWh Weekday (10 PM - 10 PM) 1.53¢ per kWh Saturday, Sunday, Holiday (1) 1.53¢ per kWh Saturday, Sunday, Holiday (1) 1.54¢ per kWh Saturday, Christmas Eve Day, and Christmas Day. FILEDD MAR 18 1995 MKSOURI Public Service Commission Public Service Commission *Indicates Change Date Effective MAR 18 105	* II. <u>sta</u>	andard Rates for Purchase. I stomer with a design capacity	he standard rates for of 100 kW or less are	purchase from as follows:
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Winter Rate (Applicable during 8 monthly billing periods of October through May) Winter 1.68¢ per kWh 2. Time-Differentiated Energy Rate Summer Rate (Applicable during 4 monthly billing periods of June through September) Weekday (10 AM - 10 PM) 1.77¢ per kWh Weekday (10 AM - 10 PM) 1.21¢ per kWh Saturday, Sunday, Holiday (1) 1.26¢ per kWh Winter Rate (Applicable during 8 monthly billing periods of October through May) Weekday (10 AM - 10 PM) 1.95¢ per kWh Winter Rate (Applicable during 8 monthly billing periods of October through May) Weekday (10 AM - 10 PM) 1.95¢ per kWh Saturday, Sunday, Holiday (1) 1.53¢ per kWh Weekday (10 AM - 10 PM) 1.95¢ per kWh Weekday (10 AM - 10 PM) 1.95¢ per kWh Saturday, Sunday, Holiday (1) 1.54¢ per kWh (1) Legal Holidays of New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Thanksgiving Friday, Christmas Eve Day, and Christmas Day. FILEDD MAR 18 1995 MAR 18 1995 MiSSOURI Public Service Commission MAR 18 1505			ing 4 monthly billing	periods of Jun
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Weekday (10 PM - 10 AM) 1.53¢ per kWh Saturday, Sunday, Holiday (1) 1.54¢ per kWh (1) Legal Holidays of New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Thanksgiving Friday, Christmas Eve Day, and Christmas Day. E Friday, Christmas Eve Day, and Christmas Day. Friday, Christmas Eve Day, and Christmas Day. Indicates Change P.S.C. Mo. DATE OF ISSUE January 17, 1995 NL. C.C. DATE OF ISSUE January 17, 1995 DATE EFFECTIVE MAR 18 1995			uring 8 monthly bill.	ing periods o
Independence Day, Labor Day, Thanksgiving Day, Thanksgiving Friday, Christmas Eve Day, and Christmas Day. FILED MAR 18 1995 *Indicates Change P.S.C. Mo. DATE OF ISSUEJanuary 17, 1995 KL. C.C. DATE OF ISSUE DATE EFFECTIVEMAR 18 1995	SSOUR	Weekday (10 PM - 10 AM)	1.53¢ per kWh	
MAR 1 8 1995 *Indicates Change P.S.C. Mo. DATE OF ISSUE	Pure See	Independence Day, Labor	Day, Thanksgiving Day	', Memorial Day ', Thanksgivin
*Indicates Change MiSSOURI P.S.C. Mo. DATE OF ISSUE January 17, 1995 DATE EFFECTIVE MAR 18 1995.			F	FILED
*Indicates Change Public Service Commission P.S.C. Mo. DATE OF ISSUE January 17, 1995 NUL. C.C. DATE OF ISSUE Date Effective MAR 18 1995			W	IAR 1 8 1995
ILL, C.C. DATE OF ISSUE DATE EFFECTIVE MAR 1 8 1995	*Indicates	Change	PublicS	MISSOURI ervice Commissi
	P.S.C. Mo, DATE O	FISSUE January 17, 1995		
IA.ST.C.C. DATE OF ISSUE DATE EFFECTIVE	ILL, G.C. DATE O	F ISSUE		AR 1 8 1995
	IA.ST.C.C. DATE O	F ISSUE		
ISSUED BYC. W. Mueller President & CEO St. Louis, Missour			TITLE	ADDRESS

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P. S. C. MO.,	ILL. C. C., IA. ST. C. C.	SCHEDULE NO. 1	<u>6th</u>	Revised	SHEET NO (
	CANCELLING	SCHEDULE NO. 1	5th	Revised	SHEET NO(
APPLYING TO	<u> </u>	MISSOURI	SERVICE AREA	<u></u>	
			SES FROM QUALIFY	RE	CEIVED
	LLECTR.	IC POWER PURCHAS	SES FROM QUALIFY.	ING FACILITTE	
I.	electric ene.	rgy and capacity	oplies to purcha y from Qualifyir under the provi to Service Commis	ng Facilities	(hereinafte
*II.			. The standard city of 100 kW o		
	1. <u>Non-Time</u>	- Differentiat	ed Energy Rate		
		Rate (Applicable September)	during 4 monthl	ly billing pe	riods of Jur
	Sum	mer	1.31¢ p	er kWh	
		Rate (Applicabl through May)	e during 8 mon	nthly billing	g periods o
	Wint	ter	1.20¢ p	er kWh	
	2. <u>Time-Dif</u>	fferentiated Ene	rgy Rate		
		Rate (Applicable September)	during 4 month	ly billing pe	riods of Ju
	Weekday	(10 PM - 10 AM)	1.62¢ p 1.07¢ p ay (1) 1.23¢ p	er k₩h	
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		By Publi	C Service URI MISSOURI	MAR	
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UNION ELEC	TRIC COMPANY	ELECT	RIC SERVICE			
P.S.C. HO., IL	L.C.C., IA. ST.C.C. SCI	HEDULE NO. 1	5th Revised	<u>CEIVED</u>		1()
	CANCELLING SC	HEDULE NO	4th Revised		SHEET NO	1()
APPLYING TO		MISSOURI SERV				
	FLECTRIC	POWER PURCHASE	ES FROM QUALIFYT	ASSOURT	- BaiAn	<u></u>
	ELLOTRIO	TOWER FORGERSI	Public 34	NG PROPERTY	2031011	
	1. Application.	, inis tariii	applies to p	urcnases of	electric	
	Facilities	(hereinafter r	rgy and capact eferred to as '	ity from ('Customer")	under the	
	provisions	of Rule 4 CSR	240-20.060 of	the Missou	ri Public	
	Service Com	nission.				
*1	I. <u>Standard Rat</u>	tes for Purcha	se. The standar	rd rates for	purchase	
	from a custo as follows:	omer with a de	sign capacity o	f 100 kW or	less are	
	1. <u>Non-Tir</u>	<u>ne - Differenti</u>	iated Energy Rat	e		
			le during 4 mon	nthly billir	ng periods	
	of June	e through Septe	ember)			
	St	ummer	1.33¢	per kWh		
			able during 8 mo	nthly billin	ng periods	
	of Octo	ober through Ma	ay)	•		
	W	inter	1.26¢	per kWh C	ANCELLE	Ð
	2. Time-D:	ifferentiated 1				
					MAR 1 1993	
	of June	<u>Rate</u> (Applica e through Septe	able during 4 mo amber)	nthly bills	g periods,	<u>}</u>
					ervice Com MISSOURI	mis
ļ			PM) 1.48¢ M) 1.18¢		MINDOUN	
			liday (1) 1.32¢			
	Winter	Rate (Applica	able during 8 mo	nthly hilli	o periods	
	of Octo	ober through Ma	ay)			
	Weekday	7 (10 AM - 10 T	PM) 1.32¢	ner kWh		
	Weekda	y (10 PM - 10 A	M) 1.22¢	per kWh		
	Saturda	ay, Sunday, Hol	ldiay (1) 1.23¢	per kWh		
			of New Year's Da		iay,	
			ndependence Day, 7, Thanksgiving			
			has Day.	FILEC		
				FEB 14 1		
*1	Indicates Change	e		•		
			Publi	c Service Co	ommission	
P.S.C. Mo. D	ATE OF ISSUE	nuary 14, 1991	DATE EFFE	CTIVE Febr	uary 14, 199)1
	ATE OF ISSUE			GTIVE		
	ATE OF ISSUE		•	GTIVE		
145UED BY	William E. Con		Chairman		Louis, Miss	011-
÷		OFFICER	TITLE		AODRESS	
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	P.S.C. MO.,	, ILL. C.C., IA. ST. C.C. SCHEDULE NO.	4th Revised	1 (M)
		CANCELLING SCHEDULE NO	3rd Revised	BECENST (M)
	APPLYING 1	MISSOURI SERV	VICE AREA	
	-			JAN 1 3 1909
	ļ	ELECTRIC POWER PURCHASES FROM Application. This tariff appli- energy or electric energy ar Facilities (hereinafter referred provisions of Rule 4 CSR 240-2 Service Commission.	les to purchases nd capacity from l to as "Customer	MISSOURI Pafijetectrice Commissio Qualifying ") under the
-		Standard Rates for Purchase. The from a customer with a design c as follows:		
		1. Non-Time - Differentiated E	Energy Rate	
		Summer Rate (Applicable dur of June through September)	ring 4 monthly bil	lling periods
		Summer	1.35¢ per kWh	
		Winter Rate (Applicable du of October through May)	iring 8 monthly bi	lling periods
		Winter	1.33¢ per kWh	
		2. Time-Differentiated Energy	Rate	
		Summer Rate (Applicable du of June through September)		
NCE	ED	Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holiday (M) Winter Rate (Applicable du of October through May) Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holdiay	1.55¢ per kWh 1.18¢ per kWh (1) 1.30¢ per kWh	
CAN FEB J	R.S. H	M ¹⁹⁹⁰ of October through May)	uring 8 monthly bi	lling periods
aublic 50	16° OLIP	Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holdiay	1.48¢ per kWh 1.26¢ per kWh (1) 1.24¢ per kWh	
3		(1) Legal Holidays of New Memorial Day, Indepen Thanksgiving Day, Tha Day, and Christmas Da	dence Day, Good dence Day, Labor I nksgiving Friday,	Friday, Day,
	*Ind	icates Change		FEB 1 3 1989
			Public-	Service Commission
	P.S.C. Mo.	DATE OF ISSUE JANUARY 13, 1989	DATE EFFECTIVE	February 13, 1989
	ILL. C.C.	DATE OF ISSUE	- DATE EFFECTIVE	
	IA. ST. C.C.	DATE OF ISSUE	DATE EFFECTIVE.	
	18SUED BY	William E. Cornelius	Chairman	St. Louis, Missouri
	-	NAME OF OFFICER	Τιτιπ	ADDRESS

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ADDRESS

UNION EL	ECTRIC COMPANY ELE	
P.S.C. MO	ILL. C.C., IA. ST. C.C. SCHEDULE NO.	3rd Revised SHEET NO. 1(M
	CANCELLING SCHEDULE NO.	2nd Revised 1()
APPLYING 1	oMISSOURI_S	SERVICE AREA
	ELECTRIC POWER PURCHASES	FROM QUALIFYING FACILITIES
	Application. This tariff energy or electric energ Facilities (hereinafter ref provisions of Rule 4 CSR Service Commission. Standard Rates for Purchase from a customer with a dest as follows: 1. Non-Time - Differentia	applies to purchases of electric y and capacity from Qualifying erred to as "Customer") under the 240-20.060 of the Missouri Public REGENED . The standard rates for purchase ign capacity of 100 kW or less are JAN 1 - 1937 ted Energy Rate e during 4 monthly billing periode
	Summer Winter Rate (Applicab of October through May	1.86¢ per kWh le during 8 monthly billing perioED) CANCERIOED
	Winter 2. Time-Differentiated En	1.80¢ per kWh FEB 1 S 1989 FEB 1 S 1989 KM
	Summer Rate (Applicab of June through Septem Weekday (10 AM - 10 PM Weekday (10 PM - 10 AM	1.80¢ per kWh Hergy Rate Dele during 4 monthly biblic Service Commission Hergy Rate 1.80¢ per kWh 1.80¢ per kWh
	Saturday, Sunday, Holl	day (1) 1.77¢ per kwn ble during 8 monthly billing periods
	Saturday, Sunday, Hold (1) Legal Holidays of Memorial Day, Ind Thanksgiving Day,	1) 1.73¢ per kWh liay (1) 1.71¢ per kWh New Year's Day, Good Friday, lependence Day, Labor Day, 111, 14 Thanksgiving Friday, Christmas Eve
	Day, and Christma icates Change	l Puene Service Commissio
	DATE OF ISSUE	
	DATE OF ISSUE	
ISSUED BY	William E. Cornelíus	President St. Louis, Missouri

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		2ND REVISED 1()
	P.S.C. MO., ILL. C.C., IA. ST. C.C. SCHEBULE NO. 1	SHEET NO
	CANCELLING SCHEDULE NO	IST REVISED REAL
	APPLYING TOMISSOURI SERV	
	ELECTRIC POWER PURCHASES FR	om qualifying facilitins 15 1985
	I. <u>Application</u> . This tariff applies electric energy and capacity from referred to as "Customer") under 240-20.060 of the Missouri Public	Qualifying Fac Public Service pinafter the provisions of Rule CSR OMMISSION
	II. <u>Standard Rates for Purchase</u> . The customer with a design capacity o	standard rates for purchases from a f 100 kW or less are as follows:
	1. Non-Time - Differentiated En	ergy Rate
	Summer Rate (Applicable duri through September)	ng 4 monthly billing periods of June
,	Summer	2.05¢ per kWh
	Catabase through Morry	ing 8 monthly billing periods of
		ELLED 1.72¢ per kWh
	2. <u>Time-Differentiated Energy R</u> FLD <u>Summer Rate</u> (Applicable for June through September)	ing 4 pohen billing periods of
	June through Septembe PyWy BY Weekday (10 AM PUNUC SER Weekday (10 AM - 10 AM) Saturday, Sunday, Holid	AMSSOURI 2.65 ¢ per kWh 1.61¢ per kWh lay (1) 1.87 ¢ per kWh
:	Winter Rate (Applicable dur October through May)	ing 8 monthly billing periods of
	Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holic	1.63 ¢ per kWh
		FEB 1 4 1985 Public Service Commission
	P.S.C. MO. DATE OF ISSUE JANUARY 15, 1985	DATE EFFECTIVE February 14, 1985
	ILL. C.C. DATE OF ISSUE	
	IA. ST. C.C. DATE OF ISSUE	DATE ÉFFECTIVE
	William E. Cornelius	President St. Louis, Missouri
	NAME OF OFFICER	TITLE ADDRESS

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P.S.C. MO., IL	L. C.C., IA. ST. C.C. SCHEDULE NO.	FIRST REVIS	ED
	CANCELLING SCHEDULE NO.	ORIGINAL	SMEE
PPLYING TO	MISSOURI	SERVICE AREA	DEARING
	ELECTRIC POWER PURCHASES F	POM QUALTENING	
	ELECTRIC FOWER FORCHASES F.	KOM QUALIFIING	
• el re 24	plication. This tariff applie ectric energy and capacity from ferred to as "Customer") under 0-20.060 of the Missouri Publi	m Qualifying Fa the provisions c Service Commis	Piture MUSSON R
	andard Rates for Purchase. Th stomer with a design capacity		
1.	Non-Time - Differentiated E	nergy Rate	•
	Summer Rate (Applicable dur through October)	ing 5 monthly b	illing periods of
	Summer	2.	03¢ per kWh
	Winter Rate (Applicable du November through May)	ring 7 monthly	billing periods o
	Winter	1.	71¢ per kWh
2.	Time-Differentiated Energy	Rate	
ł	<u>Summer Rate</u> (Applicable du June through October)	ring 5 monthly	billing periods o
	Weekday (10 AM - 10 PM		63¢ per kWh
	Weekday (10 PM - 10 AM Saturday, Sunday, Holi		61¢ per kWh 90¢ per kWh
	Winter Rate (Applicable du November through May)	•	
	Weekday (10 AM - 10 PM	i) 1.	96¢ per kWh
	Weekday (10 PM - 10 AM Saturday, Sunday, Holi		61¢ per kWh 53¢ per kWh
	1) Legal holidays of New Year Independence Day, Japon Day Friday, Christmas Bya Day,	s Day, Good Fri E WhankEgilying and Christmas D	day, Memorial Day Day, Thankogiving ay. FILED
	BY Jud	A 1985 RS (M) CE COMMISSION PU	MAR 1 6 1983 blic Service Commis
P.3.C. No. r	February 14 198	MISSOURI	ve March 16, 19
-	ATE OF 155UE	n SAILLIFECH	ve
. –	ATE OF ISSUE	- DATE EFECTI	
Issued by	Charles J. Dougherty	Chairman	CF Tauta Mt
	NAME OF OFFICER	TITLE	St. Louis, Mis

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	C.C. IA ST.C.C. SCHEDULE HO	PIGINAL INCEN	. Hd'
. 0	CANCELLING SCHEDULE NO	SHEET	NO
PPLYING TO	MISSOURI SERVICE AREA	DEBEIME	M
	······································		
	ELECTRIC POWER PURCHASES FROM QUAL	TEVING FACH. HTTESO	•
•		04	•
	lication. This tariff applies to purchases		
ele.	ctric energy and capacity from Qualifying E	Facilities (hereinaf	
Tei	erred to as "Customer") under the provision of the Missouri Public Service Commission	78 0 <u>7.0016 -7030</u> 730	
•	•		.•
II. Sta	indard Rates for Purchase. The standard rat	es for purchases fr	013
·.· cus	tomer with a design capacity of 100 kW or 1	less are as tollows:	
1.	Non-Time - Differentiated Energy Rate		•
• •	e		•
•	Summer Rate (Applicable during 5 monthly through October)	billing periods of	Jur
• ;	Chrough Occober		
	Summer	.89¢ per kWh	
•	Winter Rate (Applicable during 7 monthly	hilling meriods of	
	November through May)	erre berroes or	
•	έ. · · · · · · · · · · · · · · · · · · ·		-
• .	Winter	.72; per kWh	
2.	Time-Differentizted Energy Rate		•
-		1.	•.
•	<u>Summer Rate</u> (Applicable during 5 monthly through October)	billing periods of	រូប
•			•
a		.36¢ per kWh	
•		1.47¢ per kWh 1.73¢ per kWh	
••	Saturday, Sunday, Holiday (1) <u>Winter Rate</u> (Applicable during 7 monthly November through May)	-01	n'
• .	Winter Rate (Applicable during 7 monthly	billing parts for Eal	5
	November through May)	U AIN	10
•	Weekday (10 AM - 10 FM)	2.07c per kwbMAR ¹⁶ 1.52c per kwb $(1, 1, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,$	ر، آر
	Weekday (10 PM - 10 AH)	1. 52e per kWh t ()	5_
•	 (1) Legal holidays of New Year's Day, Good Independence Day, Labor Day, Thanksgiv Friday, Christmas Eve Day, and Christmas 	1.49¢ per kWh	- C
· · ·	(1) Legal holidays of New Year's Day. Good	i Friday, Meloria P	_{is} so ay ,
•	Independence Day, Labor Day, Thanksgiv	ving Day, Thanksgivi	ng
	Friday, Christmas Eve Day, and Christman		• •
		OCT 14 932	
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Public Service Commission .

P.S.C. 40. DATE OF ISSUE ADT11 15. 1982	QATS EFFECTIVE	
ILL C.C. DATE OF ISSUE	DATE EFFECTIVE	
14. ST. C. C. DATE OF ISSUE	OATE EFFECTIVE	······································
there av Charles J. Dougherty	Chairman	St. Louis, Missouri

TITLE

OFFICER

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UNION ELECTRIC COMPANY ELECTRIC SERVICE

P. S. C. MO.,	ILL. C. C.	., IA. ST. C. C. SCHEDULE NO1		6th Revised	SHEET NO. 2
	(CANCELLING SCHEDULE NO. 1		5th Revised	SHEET NO. 2
APPLYING TO		MISSOURI	SERVICE	AREA	
А.	ELECI	TRIC POWER PURCHASES FRO	OM QUALIFY	VING FACILITIES	
I.	elect refer	cation. This tariff a cric energy and capacit cred to as "Customer") 50 of the Missouri Publ:	y from Qu under th	alifying Facilitie e provisions of R	es (hereinafter
*II.		dard Rates for Purchase omer with a design capac			
	1. 1	Non-Time - Differentiat	ed Energy	Rate	
		<u>Summer Rate</u> (Applicable through September)	during 4	monthly billing p	periods of June
		Summer	2	2.06¢ per kWh	
	-	Winter Rate (Applicab) October through May)	e during.	8 monthly billi	ng periods of
		Winter	-	L.90¢ per kWh	
	2.	Time-Differentiated Ene	rgy Rate		
	-	<u>Summer Rate</u> (Applicable through September)	during 4	monthly billing p	periods of June
	1	Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holid	-	L.63¢ per kWh	
	-	<u>Winter Rate</u> (Applicab) October through May)	e during.	8 monthly billi	ng periods of
		Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holid	ay (1)	2.06¢ per kWh L.84¢ per kWh L.79¢ per kWh	
		(1) Legal Holidays of Memorial Day, Indep Thanksgiving Day, 7 Day, and Christmas	pendence I Thanksgiv:	Day, Labor Day,	
*Indic	cates	Change.		ET-2	FILED Missouri Public Service Commission 2013-0351; YE-2013-0313

CANCELLED P	P.S.C. Mo. DA	ATE OF ISSUE	Ξ	January 9	9,	2013	DATE EFFECTIVE	- Febr	uary 8, 2	2013- January 24	4, 2013
June 30, 2013 Missouri Public	SSUED BY	Warner	L.	Baxter		Presi	dent & CEO	St	. Louis,	Missouri	
Service Commission ET-2013-0546; JE-2013-0	-	NAME	OF O	FFICER			TITLE		ADDR	ESS	

UNION ELECTRIC COMPANY ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1 5th Revised SHEET NO. 2
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PLYING TO	~	
	5	MISSOURI SERVICE AREA
7		ARE TO DESCRIPTION OF A DAMAGENCIA PAGE FREE
Α.		CTRIC POWER PURCHASES FROM QUALIFYING FACILITIES
I.	ele ref	<u>lication</u> . This tariff applies to purchases of electric energy of ctric energy and capacity from Qualifying Facilities (hereinafted erred to as "Customer") under the provisions of Rule 4 CSR 240 060 of the Missouri Public Service Commission.
*II.		ndard Rates for Purchase. The standard rates for purchase from a tomer with a design capacity of 100 kW or less are as follows:
	1.	Non-Time - Differentiated Energy Rate
		Summer Rate (Applicable during 4 monthly billing periods of June through September)
		Summer 1.98¢ per kWh
		<u>Winter Rate</u> (Applicable during 8 monthly billing periods of October through May)
		Winter 1.75¢ per kWh
	2.	Time-Differentiated Energy Rate
		Summer Rate (Applicable during 4 monthly billing periods of June through September)
		Weekday (10 AM - 10 PM) 2.58¢ per kWh Weekday (10 PM - 10 AM) 1.60¢ per kWh Saturday, Sunday, Holiday (1) 1.73¢ per kWh
		<u>Winter Rate</u> (Applicable during 8 monthly billing periods of October through May)
		Weekday (10 AM - 10 PM) 1.89¢ per kWh Weekday (10 PM - 10 AM) 1.70¢ per kWh Saturday, Sunday, Holiday (1) 1.63¢ per kWh
		(1) Legal Holidays of New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Thanksgiving Friday, Christmas Eve Day, and Christmas Day.
		FILED Miasouri Dublia
*Indi	cate	s Change. Missouri Public JE-2011-0362
	ATE OF	

CANCELLED January 24, 2013	P.S.C. Mo. DATE OF ISSUE			January	14,	2011	DATE EFFECTIV	EFebrua	ary 15,	2011
Missouri Public Service Commission	ISSUED BY	Warner	L.	Baxter		Pres	ident & CEO	St.	Louis,	Missouri
ET-2013-0351; YE-2013-03		NAME (OF O	FFICER			TITLE		ADDR	ESS

UNION ELECTRIC COMPANY ELECTRIC SERVICE

P. S. C. MO.,	ILL. C. C.,	IA. ST. C. C. SCHEDULE NO.	1	4 th Revised	SHEET NO2
APPLYING TO		CANCELLING SCHEDULE NO MIS:	1 SOURI SERVIC	3 rd Revised E AREA	SHEET NO2
Α.	ELECT	RIC POWER PURCHASE	S FROM QUALI	IFYING FACILITIES	
I.	elect refer	ric energy and cap	er") under	to purchases of elec Qualifying Facilitie the provisions of Ru ice Commission.	es (hereinafter
*II.				standard rates for p 100 kW or less are a	
	1. <u>N</u>	Ion-Time - Differen	ntiated Ener	gy Rate	
	<u>5</u> t	Summer Rate (Applic Through September)	cable during	4 monthly billing p	periods of June
		Summer		2.69¢ per kWh	
		Minter Rate (Appl October through May		ng 8 monthly billi	ng periods of
		Winter		2.18¢ per kWh	
	2	ime-Differentiated	d Energy Rat	e	
		Summer Rate (Applichrough September)	cable during	4 monthly billing p	periods of June
	۲ ۲ ۲	Weekday (10 AM - 10 Weekday (10 PM - 10 Saturday, Sunday, M) PM)) AM) Holiday (1)	3.53¢ per kWh 2.18¢ per kWh 2.29¢ per kWh	
		<u>Jinter Rate</u> (Appl October through May		ng 8 monthly billi	ng periods of
	V	Weekday (10 AM - 10 Weekday (10 PM - 10 Saturday, Sunday, M) AM)	2.13¢ per kWh	
		Memorial Day,	Independence ay, Thanksgi	r's Day, Good Friday, e Day, Labor Day, iving Friday, Christn	
	cates	Change			FILED Missouri Public Service Commission JE-2009-0511
February 15, 2011 Missouri Public ervice Commisison JE-2011-0362 P.S.C. Mo. DA	TE OF ISSU	JEJanuary 14,	2009	_DATE EFFECTIVE Februa	ary 15, 2009

ISSUED BY	T. R. Voss	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

UNION ELECTRIC COMPANY ELECTRIC SERVICE

S. C. MO.,	ILL. C. C	C., IA. ST. C. C. SCHEDULE NO. <u>1</u>	3 rd Revised	SHEET NO. 2
		CANCELLING SCHEDULE NO. 1	2 nd Revised	SHEET NO. 2
LYING TO		MISSOURI	SERVICE AREA	
Α.	ELEC	TRIC POWER PURCHASES FROM	I QUALIFYING FACILITI	ES
I.	elec refe	ication. This tariff ap tric energy and capacity erred to as "Customer") u 60 of the Missouri Public	from Qualifying Fac Inder the provisions	ilities (hereinafter of Rule 4 CSR 240-
*II.		dard Rates for Purchase. comer with a design capaci		
	1.	Non-Time - Differentiate	d Energy Rate	
		<u>Summer Rate</u> (Applicable through September)	during 4 monthly bil	ling periods of June
		Summer	2.39¢ per kWh	L
		<u>Winter Rate</u> (Applicable October through May)	during 8 monthly	billing periods of
		Winter	1.74¢ per kWh	L
	2.	Time-Differentiated Ener	gy Rate	
		Summer Rate (Applicable through September)	during 4 monthly bil	ling periods of June
		Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holida	3.47¢ per kWh 1.63¢ per kWh y (1) 2.03¢ per kWh	L L
		<u>Winter Rate</u> (Applicable October through May)	during 8 monthly	billing periods of
		Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holida	1.95¢ per kWh 1.66¢ per kWh y (1) 1.58¢ per kWh	L
		Memorial Day, Indepe	ew Year's Day, Good F endence Day, Labor Da anksgiving Friday, C Day.	У,
				Filed Missouri Public Service Commissio

February 15, 2009
Missouri PublicP.S.C. Mo. DATE OF ISSUEJanuary 12, 2007DATE EFFECTIVEFebruary 15, 2007Missouri PublicISSUED BYT. R. VossPresident & CEOSt. Louis, MissouriJE-2009-0511NAME OF OFFICERTITLEADDRESS

CANCELLED

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

P. S. C. MO.	ILL. C. (C., IA. ST. C. C. SCHEDULE NO	2 nd Revised	SHEET NO
PPLYING TO	>	CANCELLING SCHEDULE NO. 1 MISSOURI S	1 st Revised ERVICE AREA	SHEET NO
А.	ELEC	TRIC POWER PURCHASES FROM	QUALIFYING FACILITIES	
Ι.	elec refe	<u>lication</u> . This tariff app stric energy and capacity erred to as "Customer") un 060 of the Missouri Public	from Qualifying Facilitinder the provisions of 1	es (hereinafte)
*II.	Star cust	dard Rates for Purchase.	The standard rates for ty of 100 kW or less are	purchase from a as follows:
	1.	Non-Time - Differentiated	Energy Rate	
		<u>Summer Rate</u> (Applicable d through September)	uring 4 monthly billing	periods of June
		Summer	2.21¢ per kWh	
		<u>Winter Rate</u> (Applicable October through May)	during 8 monthly bill	ing periods of
		Winter	1.55¢ per kWh	
	2.	Time-Differentiated Energ	y Rate	
		<u>Summer Rate</u> (Applicable d through September)	luring 4 monthly billing	periods of June
		Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holiday	2.97¢ per kWh 1.54¢ per kWh (1) 2.09¢ per kWh	
		<u>Winter Rate</u> (Applicable October through May)	during 8 monthly bill	ing periods of
		Weekday (10 AM - 10 PM) Weekday (10 PM - 10 AM) Saturday, Sunday, Holiday	1.72¢ per kWh 1.53¢ per kWh (1) 1.39¢ per kWh	
		(1) Legal Holidays of Nev Memorial Day, Indeper Thanksgiving Day, Tha Day, and Christmas Da	ndence Day, Labor Day, anksgiving Friday, Christ	
*Indi	cates	Change		

Chairman, President & CEO

TITLE

St. Louis, Missouri ADDRESS

Filed

Missouri Public

Service Commission

Cancelled February 15, 2007 ISSUED BY G. L. Rainwater

NAME OF OFFICER

Missouri Public Service Commission

UNION ELE		ELECTRIC S	Missou ervice	ri Public	
P.S.C. MO., ILL	C. C., IA. ST. C. C. SCHEDULE NO.	_1	IREO BY AND	1 4 200 - но.	2
	CANCELLING SCHEDULE NO.		ORIGINAL	SHEET NO.	2 (M
APPLYING TO		MISSOURI	SERVEFUBEACO	mmission -	
• * A	ELECTRIC_POWER_PURCHA	SES FROM OF	ALTEVING FACILIT	TES	
	Application. This ta electric energy and referred to as "Cust 20.060 of the Missour	capacity from (omer") under	om Qualifying Fa er the provision:	cilities (herei) s of Rule 4 CS	nafte
	Standard Rates for P customer with a desig				
	l. <u>Non-Time - Differ</u>	entiated En	ergy Rate		
	<u>Summer Rate</u> (App) through September		ing 4 monthly bi	lling periods o	f Jun
	Summer		1.78¢ per kW	h	
	<u>Winter Rate</u> (Ap October through M		aring 8 monthly	billing perio	de d
	Winter		1.42¢ per kW	ĥ	
	2. <u>Time-Differentiat</u>	ed Energy R	late		
	Summer Rate (App) through September	licable dur: :)	ing 4 monthly bi	lling periods o	f Jur
	Weekday (10 AM - Weekday (10 PM - Saturday, Sunday,	10 AM)	2.40¢ per kW 1.39¢ per kW) 1.52¢ per kW	n.	
	<u>Winter Rate</u> (Ap October through M		uring 8 monthly	billing perio	xds a
	Weekday (10 AM - Weekday (10 PM - Saturday, Sunday,	10 AM)	1.51¢ per kk 1.41¢ per kk 1.34¢ per kk	ih 🛛	
	(1) Legal Holid Memorial Da	ays of New 1 y, Independe g Day, Thanl	Year's Day, Good ance Day, Labor I ksgi∀ing Friday,	Day,	
1		CANC	ELLED		
		r c ið	1 5 2005		
		··· 2nd	1 5 2005		
*Indic	rates Reissue	ubic Servic MIS	e Commissionge SOURI	Missouri Put Sivies Commu ET-2004- FI FD AUG 28	eel0 -000
P.S.C. Mo. DAT	EOFISSUE August 14,	2003	DATE EFFECTIVE		
ISSUED BY	C. W. Mueller	Chair	man & CEO	St Louis S	19800

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	R.C. NO., ILL. C.C., IA		1	ORIGINAL	AMEET NO.2 (M
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	APPLYING TO	MISSOURI	SERVICE AREA	ייין ביו	
		•		BE	
		POWER PURCHASES			
	· 3. Custome	er Charge (per met	ar required for	parallel operati	on 2 1982
	1		•		
	Non-Tin	e Differentiated	Energy	s Trainic Si	PACE Commission
		- \$4.00 per mont	h - Single Pha	6e -	
		\$6.00 per mont	h - Three Phase	e	
	<u>Time u</u>	ifferentiated Ener	<u>gy</u>		
		\$13.00 per mont	h - Single Pha	98	
		\$15.00 per mont	h - Three Phase	e	
	4 Billing				
				•• •• •• •• •• •• ••	
	Mont - acco	miy billing between rdance with the Cor	n Company and Cy htract between i	the parties.	
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S. C. MO., ILL. C.		1 st Revised	SHEET NO	3
	CANCELLING SCHEDULE NO. 1 MISSOURI SER	ORIGINAL VICE AREA	SHEET NO	<u>3 (M</u>
, , , , , , , , , , , , , , , , , , ,				
*A. <u>El</u>	ECTRIC POWER PURCHASES FROM (QUALIFYING FACILITIES -	- (CONTINUED)	
з.	Customer Charge (per meter			
	Non-Time Differentiated Ene	rgy		
	\$4.00 per	month - Single Phase		
		month - Three Phase		
	Time Differentiated Energy			
		month - Single Phase		
	\$15.00 per	month - Three Phase		
4.	Billing			
	Monthly billing between Com accordance with the Contrac	pany and Customer shall	l be in	
	accordance with the contrac	t between the parties.		
	* Indicates Reissue		FILED	
			Missouri Publi	ic
			Service Commis	

CANCELLED P.S.C. M	o. DATE OF ISSUE August_1	4, 2003 DATE EFFECTIVE	<u>- September 13, 2003</u>
June 30, 2013 Missouri Public ISSUED		Chairman & CEO	St. Louis, Missouri
Service Commission ET-2013-0546; JE-2013-0582	NAME OF OFFICER	ΠΠΕ	ADDRESS

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	р.з.с. м	C. C. IA. ST.	C.C. SCHEDULE NO. 1		ORIGIZAL	SHEET NO. 3(M)
	•	CANCEL	LING SCHEDULE NO			
	• .		MISSOL	JRI SERVICE AREA	. <u>D</u>	S @ G J M G M
	APPLYING		POWER PURCHASES I			
		• <u></u>		······································		
	111.	under the st to make any	Thether or not purchase from Co purchase from Co ye entered into a	nion Electric Co Istomer until Un	mpany shall no nion Electric (ot be required Company and
	11.	All provision	ns of this tariff	are subject to	all Commissio	n rules and
	10.	regulations a	as may be revised tso subject to th	l from time-to-t	ime. All term	s of the
	٧.	Guideline To Union Electr	echnical Require ric System.	ments for Parall	lel Operation	with the
0		1. Introduc	ction	•		
		Customer are set UE and (however requirer install; 2. <u>General</u>	detecting faul UE system. Th system from th an auxiliary d separating dev available faul and operating	al generating fa hese requirement ring when planni ed that each ins those set forth ature.	tive devices c both his syst separate Cus her directly o circuit break able of interr detection sen devices must b	the UE system as a guide for stallation; have specific result of each apable of em and the tomer's r through er. The upting the sitivity
CAN	ICELL	(2) ED	<pre>matically sepa</pre>	hall install equ rate his system rmal UE supply.		
	2 8 2 RS 100 CO SOUF	3 gamission	equipment in s	em or on Custome	at faults or o	Customer-owned ther disturbances not cause damage
	P.S.C. ¥	O. DATE OF ISSUE	<u>April 15, 198</u>	· ,	UU	OCT ⁴ 1 ⁴⁵ 1982
	166.64			DATE CP		82-140
	LA. 87. C	C. DATE OF ISSUE.	·····	DATE EP	FECTIVE Public Se	Battee Commission
	INUED	- Charles	J. Dougherty	Chairman Titur	St.	Louis, Missouri

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1 2nd Revised SHEET NO. 4
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CANCELLING SCHEDULE NO. 1 1st Revised SHEET NO. 4

APPLYING TO	_
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MISSOURI SERVICE AREA

- *A. <u>ELECTRIC POWER PURCHASES FROM QUALIFYING FACILITIES (CONTINUED)</u>
- III. <u>Contract</u>. Whether or not purchases are made by Company under the standard rates, the Company shall not be required to make any purchase from Customer until Company and Customer have entered into a written contract for such purchases.
- IV. All provisions of this tariff are subject to all Commission rules and regulations as may be revised from time-to-time. All terms of the tariff are also subject to the Commission's normal complaint and arbitration procedures.
- V. Guideline Technical Requirements for Parallel Operation with the Company's System.
 - 1. Introduction

The minimum technical requirements for safe parallel operation of Customer-owned electrical generating facilities with the Company's system are set forth below. These requirements will serve as a guide for Company and Customer engineering when planning such an installation; however, it is recognized that each installation may have specific requirements other than those set forth herein as a result of each installation's unique nature.

- 2. General Technical Requirements
 - A. Protection
 - (1) Customer shall install protective devices capable of detecting fault conditions on both his system and the Company's system. These devices will separate Customer's system from the Company's system either directly or through an auxiliary device such as a circuit breaker. The separating device must be capable of interrupting the available fault current. The detection sensitivity and operating speed of these devices must be compatible with protective devices on the Company's system.
 - (2) The Customer shall install equipment designed to automatically separate his system from the Company's system upon loss of the normal Company supply.
 - (3) The Customer is responsible for protecting Customer-owned equipment in such a manner that faults or other disturbances on the Company's system or on Customer's system do not cause damage to his equipment.

	* Indic	ates Change.		FILED Missouri Public Service Commission
CANCELLED	DATE OF ISSUE	October 28, 2010	DATE EFFECTIVE	ET-2011-0102; YE-2011-0217 November 27, 2010
June 30, 2013	-	· · · · · ·		
Missouri Public	ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
Service Commission		NAME OF OFFICER	TITLE	ADDRESS
ET-2013-0546; JE-2013	-0582			

	UNION ELE	ON ELECTRIC COMPANY ELECTRIC SERVICE							
	P. S. C. MO., IL	L. C. C., IA. ST. C. C. SCI	HEDULE NO	1 st Revised	SHEET NO4				
		CANCELLING SC	HEDULE NO. 1 MISSOURI SEI	ORIGINAL RVICE AREA	SHEET NO4 (M				
	*A.	ELECTRIC POW	ER PURCHASES FROM	QUALIFYING FACILITIE	S - (CONTINUED)				
	III.	<u>Contract</u> . A Company unde be required	Thether or not pu or the standard r to make any purc upany and Custome	rchases are made by U ates, Union Electric hase from Customer un r have entered into a	nion Electric Company shall not til Union				
	IV.	the tariff a	ons as may be re	f are subject to all o vised from time-to-tin to the Commission's no	ne. All terms of				
	v.	Guideline Te <u>Union Electr</u>	chnical Requirem ic System.	ents for Parallel Ope:	ration with the				
	,	1. Introduc	ction		· · · · · · · · · · · · · · · · · · ·				
		operation with the will ser planning each ins	on of Customer-ow UE system are s ve as a guide fo y such an install stallation may ha t forth herein a	equirements for safe p med electrical genera et forth below. Thes or UE and Customer eng ation; however, it is ve specific requireme s a result of each in	ting facilities e requirements ineering when recognized that nts other thap				
		2. <u>General</u>	Technical Requir	ements					
		A. Pro	tection						
		(1)	of detecting f and the UE sys Customer's sys directly or th circuit breake capable of int current. The speed of these	I install protective of fault conditions on bo stem. These devices we stem from the UE system arough an auxiliary de er. The separating de cerrupting the availab detection sensitivity e devices must be comp vices on the UE system	oth his system will separate on either vice such as a vice must be ole fault and operating atible with				
		(2)	The Customer s automatically	hall install equipmen separate his system f ss of the normal UE s	t designed to rom the UE				
		(3)	Customer-owned faults or othe	s responsible for pro equipment in such a r disturbances on the tem do not cause dama	manner that UE system or on				
CANCELLED November 27, 2010		* Indicates	Reissue		FILED Missouri Public				
Missouri Public Service Commission	l				Service Commision				
T-2011-0102; YE-2011-	-0217 P.S.C. Mo. DATE OF	- ISSUE Augu	<u>s</u> t 14, 2003		August 28, 2003				
		C. W. Mueller NAME OF OFFICER	Chairm		Louis, Missouri ADDRESS				

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St. Louis, Missouri ADDRESS

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	P.S.C. 1 (1)	A ST.C.C. SCHEDULE NO.	1	GIGINAL	SHEET NO. 4 (1
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	APPLYING TO	. MISSOURT	SERVICE AREA	<u> 위</u> 돈(6)	ENMEM
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	ELECI	RIC POWER PURCHASE	S FROM QUALIFYING	FACILITIES PR(CONFINUED)
· · · · ·		· · · · · · · · · · · · · · · · · · ·	·····		
		(4) Customer shall	furnish informat	ion to E regar	ding his
	•	proposed gener	ation equipment a lel operation. U	nd pro <u>cec</u> tive _l d 2 will check th	e-adequacy
		of this propos	ed equipment and	its compatibili	ty with
•			ices on the UE sy r specify additio		
			der to begin para		
		system.	- -		
	••••	(5) All protective	relay settings t	hat would affec	t any UE
		system relay s	ettings will be s	pecified by UE.	These
		velays will be operation.	initially calibr	ated by UE to a	ssure proper
· · · ·	,		• •	•	· · ·
<u>.</u>			le disconnect swi xclusive jurisdic		
			his manual switch		
		. to be locked o	out of service by	a UE-authorized	switchman.
~			· · · · ·	-	
			ements are the ba		
			hat would be asso tional requirement		
		• -	n-depth study of		
		Operation	and the second second		· -
		pheraction	•	•	• .
A L	· · ·		conditions the in be operated by C		
0			inual disconnect s		
		action for any	v of the following	; reasons:	
· · · ·		a. System eme	ergency.		
					· · · · · · · · · · · · · · · · · · ·
• • •	CANCELLED		n of Customer's ge e equipment reveal		
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,	VSt RS . 4		<pre>s generating equip or with the opera</pre>		
وں Publio	Service Commis	SION	· ·		
	MISSOURI	d. An outage feeder.	is scheduled on t	the UE supply ci	Lreuit or
		TCCart.	· .	5 U	
	L				T 1 4 1000
A	P.J.C. NO. DATE OF	BUE_April_15, 198	3 <u>2</u> OATE E	FECTIVE_B	DCT 1 4~1982
	ILL. C.C. DATE OF	_	DATE E	Public S	ervice Commission
	LA. ST. C.C. DATE OF		DATE E	8	2-140
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	Ch	arles J. Dougherty	Chairman	St. 1	ouis, Missouri
	`. 	NAME OF DEFICER	TITLE	- «می از این	A00A 613

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

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APPLYING TO			<u>M</u> .	ISSOURI SE	RVICE AREA		
*A.	ELECTRIC	POWER	PURC	CHASES FROM	I QUALIFYING	FACILITIES -	(CONTIN
			rega: prote Compa equij devie appro which	rding his p ective dev any will cl pment and s ces on the ove as sub h will be s	proposed gen ices prior t neck the add its compatil Company's s mitted or sp	formation to C heration equip to parallel op equacy of this pility with pr system and wil pecify additic order to begi y's system.	ment and eration propose otective l either nal equi
			Compa Compa	any system any. These	relay sett: e relays wil	ings that woul ings will be s ll be initiall er operation.	pecifie
			whic of t have	h is under he Company the capab:	the exclus: dispatcher	ct switch must ive jurisdicti . This manual locked out of man.	onal co switch
			prote with and/e	ection requ parallel o or equipmen	uirements th generation.	the basic mini nat would be a Additional r pend on an in- pn.	ssociat equirem
	в.	Opera	ation	1			
			one : orde: swite	is required r for Compa	d) must be o any to opera ny may reque	the intertie b operated by Cu ate the manual est this actic	stomer discon
			a.	System eme	ergency.		
					equipment	r's generating reveals an un	
					omers or wi	equipment in th the operat	
				An outage circuit or		d on the Compa	any's su
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DATE OF ISSUE	0	1		010	DATE EFFECTIV	_	102; YE-201

Service Commission
ET-2013-0546; JE-2013-0582

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	P. S. C. MO., IL	L. C. C., IA. ST. C. C. SCH		1 st Revise	edSHEET NO.	5
	APPLYING TO	CANCELLING SCH	EDULE NO. 1 MISSOURI	ORIGINAL SERVICE AREA	SHEET NO.	5 (M)
	*A.	ELECTRIC POWE	R PURCHASES H	ROM QUALIFYING FACILI	TIES - (CONTINUED)
		(4)	Customer sh his propose devices pri the adequac compatibili system and specify add	all furnish information d generation equipment or to parallel operation y of this proposed equip ty with protective devi will either approve as itional equipment which	on to UE regarding and protective on. UE will check ipment and its vices on the UE submitted or th will be require	g ck
		(5)	UE system re These relay:	elay settings will be	specified by UE.	-
		(6)	of the UE d	der the exclusive juri ispatcher. This manua ity to be locked out o	sdictional control switch must have	
		(7)	protection i with paralle and/or equip	equirements that woul generation. Additi	d be associated onal requirements	
Í		B. Oper	ation			
		(1)	one is requi order for UE	red) must be operated to operate the manua may request this acti	by Customer in 1 disconnect	
			a. System (emergency.	rotective devices on the UE er approve as submitted or quipment which will be required rallel operation with the UE settings that would affect any ings will be specified by UE. initially calibrated by UE to ion. connect switch must be provided kclusive jurisdictional control . This manual switch must have locked out of service by a UE- are the basic minimum nuts that would be associated tion. Additional requirements Id depend on an in-depth study hection.	
			b. Inspect: protect: conditio	ive equipment reveals	rating equipment an unsafe	or
			c. Customer other cu system.	r's generating equipme stomers or with the o	nt interferes wit peration of the U	:h JE
			d. An outag or feede	ge is scheduled on the er.	UE supply circui	t
ELLED er 27, 2010 iri Public		* Indicates	Reissue		FILED Missouri Pub Service Comm	- 1

Service Commission ET-2011-0102; YE-2011-0217

NAME	OF OFFICER		TITLE		ADD	RESS
	Mueller		Chairman	St.	Louis,	Missouri
P.S.C. Mo. DATE OF ISSUE	August	14, 2003	3	Sept	cember	13 <u>, 2</u> 003

0	St.	Louis,	Missouri
		ADD	RESS

August 28, 2003

	UNION ELECTRI	• •	COGENERATION	• 63	
	P.S.C. N	C., IA. ST. C.C. SCHEDULE NO.	<u> </u>	GINAL	SHEET NO. 5(M)
· • • •	•	CANCELLING SCHEDULE NO.			
	APPLYING TO	MISSOUR	I SERVICE AREA	·	7月6月11月6月
•	· · · ·				· · ·
	ELE	CTRIC POWER PURCHASE	S FROM QUALIFYIN	<u>G FACILITIES -</u>	APP 1 2 1032 (CONTINUED)
		and voltage.	l be solely response s generating equi- This includes re putages or distur	pment with the synchronizing	UE-frequency IIISS
	с.	Quality of Service	•		
		with the UE sy quality of ser cause any unde order to achie presently app measured at th	ection of Custome ystem shall not can tryice being provides inable effect on eve this objective licable to Custom he point of inter- he qualifying fac	ause any reduct ded to other cu n any UE facil: e, wave form gu er's facility a connection betw	tion in the istomers or ities. In widelines and which are ween the
		a. The phase	unbalance must be	e less than 1%	•
6			metic sum of harmonic must be less the		irrent
	-		of the sum of the rrent or voltage p	-	
		which are sub as well as the	its should be view ject to change as c unique nature o of interconnection	dictated by en f the electrica	xperience :
		equipment cont	for of Customer's nected shall not b liff for his applie	be less than th	hat specified
	D.	Metering	• • •	•	
CAN	ELLED	Parallel generating divided into two gr way Power Flow." ' facilities whose lo	Coups: (1) 'Two-v Two-way Power Flo	way Power Flow, ow" would apply	" and (2) "Oue- y to Customer's
AUG	2 8 2003	its generating capa could flow into the	acity so that exce a UE system. "One	ess Customer-ge e-way Power Flo	enerated power ow" would apply
ublic Servic	Commission SOURI	to Customer's facil	LITICS WHOSE load	15 significant	and the second second second second second
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		of Issue	DATE	EFFECTIVE	OCT-1937982
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	-	Charles J. Dougherty	Chairman	(alter a state of the state of	Louis, Missouri
	•	NAME OF OFFICER			AUDRESS

SHEET No. -

SHEET No.

Original

UNION ELECTRIC COMPANY PROMOTIONAL PRACTICES Applying to ALL MISSOURI SERVICE AREAS

FINANCING PROGRAM (CONTINUED)

Publicity will be given to this financing practice through personal contact, meetings, direct mail and other similar or appropriate means. The financing will be made available through the dealers or persons who sell and install equipment for residential customers. The dealers or persons included, but not limited to, are: appliance dealers, builders and developers, electric space heating contractors, electrical contractors, insulation contractors, mobile home park operators, and plumbers. As new electrical devices are developed in the future, the dealers handling such equipment will be included. These dealers will make information on this financing practice available to their customers and will complete and forward necessary papers to Union Electric for processing.

CANCELLED

APR 1 2 1989 BY <u>ARS #5</u> Public Service Commission MISSOURI

DATE OF ISSUE_July 28, 1971_

DATE EFFECTIVE July 28, 1971

ISSUED BY Charles J. Dougherty President St. Louis, Missouri Nume of Officer Title Address

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

	CANCELLIN	G SCHEDULE N	0 1	lst Revi	sed	SHEET NO
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*A.	ELECTRIC	POWER PUR	CHASES FRO	M QUALIFYING FACII	LITIES - (C	CONTINUED
		sync Comp resy	hronizing any's freq nchronizin	be solely respon his generating eq uency and voltage g his generator(s turbances.	uipment with. This inc	th the cludes
	С.	Quality	of Service			
		equi any prov effe achi pres whic betw	pment with reduction ided to ot ct on any eve this c ently appl h are meas	ction of Customer the Company's sy in the quality of her customers or Company facilitie bjective, wave fo icable to Custome ured at the point mpany and the qua	stem shall service be cause any u s. In orde rm guidelin r's facilit of interce	not cause eing undesiral er to nes ty and onnection
		a.	The phase	unbalance must be	e less than	n 1%,
		b.		metic sum of harmo e must be less tha		
		c.		of the sum of the rrent or voltage r		
		guid by e	elines whi xperience	s should be viewe ch are subject to as well as the un tem at each point	change as ique nature	dictated e of the
		gene than	rating equ that spec	or of Customer's ipment connected ified by retail t tomer class.	shall not B	be less
	D.	Metering				
		system a: Flow," and Flow" word sufficient capacity flow inter would app signification that no of	re divided nd (2) "On ald apply ntly varial so that e: the Comp oly to Cus antly large Customer-ge	g facilities conne into two groups: e-way Power Flow.' to Customer's fact ole or smaller that kcess Customer-ger any's system. "Or tomer's facilities er than their gene enerated power wou kcept under fault	(1) "Two-way "Two-way ilities who an its gene herated pow he-way Powe s whose loa erating cap uld flow in	yay Power y Power pse load erating yer could er Flow" ad is pacity so nto the
* Indic	ates Chang	e.			Missou	LED ıri Public
					<u>Service C</u> ET-2011-0102	Commission

President & CEO TITLE St. Louis, Missouri ADDRESS

Missouri Public ISSUED BY	Warner L. Baxter
Service Commission	NAME OF OFFICER
ET-2013-0546; JE-2013-0582	

June 30, 2013

	UNION ELE	CTRIC CON	IPANY		ELECTRIC	SERVICE				
	P. S. C. MO., IL	L. C. C., IA. ST. (C. C. SCH	EDULE	NO. <u>1</u>		1 st Revis	ed		6
	APPLYING TO	CANCEL	LING SCH		NO. 1 MISSOURI SE	RVICE A	ORIGINA:	<u>L</u>	SHEET NO	6
	*A.	ELECTRIC	POWE	R PUF	RCHASES FRO	M QUALIF	YING FACILIT	'IES - ((CONTINUED	
				Cus syn fre res	tomer shall chronizing quency and	be sole his gene voltage g his ge	ely responsi erating equip . This inclue enerator(s) a	ble for pment wi udes	properly th the UI	
		c.	Qua.	lity	of Service					
			(1)	equi redi to (on a objo to (poin	ipment with uction in t other custo any UE faci ective, wav Customer's nt of inter	the UE he quali mers or lities. e form g facility connecti	f Customer's system shall ity of servic cause any un In order to guidelines pr and which a on between t re as follows	l not ca ce being ndesirab c achiev resently are meas che util	use any provided le effect e this applicat ured at t	: ole
				a.	The phase	unbalan	ce must be l	ess thar	n 1%,	
				b.	The arithm or voltage	netic sur e must be	m of harmoni e less than	cs in th 10%, and	ne current d	t
				c.	The root c in the cur	of the surrent or	um of the squ voltage mus	uares of t be les	f harmonia ss than 54	cs ł.
				guic by e	delines which experience a	ch are s as well	be viewed a ubject to ch as the uniqu ach point of	ange as le nature	dictated e of the	
			(2)	gene than	erating equi	ipment c ified by	stomer's loa onnected sha retail tari ass.	ll not b	be less	
		D.	Mete	ring						
			are and appli vari exce syst faci gene: would	divid (2) ` able ss Cu em. litie ratir	ded into tw "One-way Po Customer's or smaller ustomer-gen "One-way Po es whose loo ng capacity ow into the	o groups wer Flow facilit than it erated p ower Flo ad is si so that	ies connecte : (1) "Two-v "Two-way ies whose lo s generating ower could f w" would app gnificantly no Customer em except un	way Power y Power bad is su capacit flow into bly to Cu larger to regenerat	r Flow," Flow" wou ufficient ty so tha o the UE ustomer's than thei ted power	ld ly t
CANCELLED November 27, 2010 Missouri Public	D	* India	cates	Reis:	sue				FILED lissouri Publ vice Commi	
Service Commissio 011-0102; YE-2011								August	28, 2003	
	P.S.C. Mo. DATE O		Augus	st <u>14</u>	, 2003	DATE		epremoei	<u>r 13, 200</u>	3
	ISSUED BY	C. W. Mue NAME OF OI	ller FICER	<u>-</u>		ian & CE(0 <u> </u>		s, Missou	<u>ri</u>

		L ST. C.C. SCHEDULE NO. 1	· · ·	NAL 6	(M)
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\bigcirc .		MISSOURI SERVICE A	REA (D)		
	APPLYING TO			EUE VED	=
	th	IC FOWER PURCHASES FROM QUAL eir generating capacity so t	hat no Customer-g	APR 13 1932 enerated power	
	vo (1	uld flow into the UZ system) Two-way Power Flow	-	t c'oddyfydda. c Sorvice Sommissi	on
		• •		in gan a thatan a an an an an an an ann an an an an a	
		This type of installation of energy in either direc			
0		The revenue metering for shall include two series detents. One meter shall supply to Customer from U Customer-generated energy prevent operation of eith	connected watthou be connected to a E; the other meter supplied to UE.	r meters with measure energy r shall measure The meter deten	
		Additional metering may on the terms of the contr			
	. (2) One-way Power Flow	3		•
(11) — -		This type of installation of energy from Customer t		he interchange	•
		The intertie circuit brea ment capable of detecting toward the UE system.			1
6		This type installation re installation with detent in the reverse direction.	to prevent operat		:
		Additional metering may on the terms of a contrac			
	E. 0	ther Requirements	and a second	• • • • • • •	•
CANCEL	ED (All Customer installation requirements of the Natio National Electric Code, a 	nal Electrical Sa	fety Code, the	•
AUG 28	2003	UE's Electric Service Rul tariffs.			,
UDIIC Service C MISSOL	ommission (2) Customer will bear all in operation over and above			ì,
•			for the second		
	P.S.C. HO. DATE OF	April 15, 1982	DATE EFFECTIVE		
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1		NAME OF OFFICER	TITLE		

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

*A. <u>ELECTRIC POWER PUR</u> (1) Two Thi int non The ins wat cor Com ger det rev Ado dep Con (2) One Thi int	MISSOURI SERVICE AREA RCHASES FROM QUALIFYING FACILITIES - (CONTINU o-way Power Flow is type of installation provides for the terchange of energy in either direction as a rmal operating mode. e revenue metering for Two-way Power Flow stallations shall include two series connected thour meters with detents. One meter shall k nnected to measure energy supply to Customer mpany; the other meter shall measure Customer nerated energy supplied to Company. The meter tents prevent operation of either meter in the verse direction. ditional metering may or may not be required pending on the terms of the contract between mpany and Customer. e-way Power Flow is type of installation does not allow the terchange of energy from Customer to the Comp e intertie circuit breaker will be tripped by uipment capable of detecting the reverse power
(1) Two Thi int nor The ins wat cor Con ger det rev Ado dep Com (2) One Thi int The equ	o-way Power Flow is type of installation provides for the terchange of energy in either direction as a rmal operating mode. e revenue metering for Two-way Power Flow stallations shall include two series connected tthour meters with detents. One meter shall k nnected to measure energy supply to Customer mpany; the other meter shall measure Customer nerated energy supplied to Company. The meter tents prevent operation of either meter in th verse direction. ditional metering may or may not be required pending on the terms of the contract between mpany and Customer. e-way Power Flow is type of installation does not allow the terchange of energy from Customer to the Comp e intertie circuit breaker will be tripped by
(1) Two Thi int nor The ins wat cor Con ger det rev Ado dep Com (2) One Thi int The equ	o-way Power Flow is type of installation provides for the terchange of energy in either direction as a rmal operating mode. e revenue metering for Two-way Power Flow stallations shall include two series connected tthour meters with detents. One meter shall k nnected to measure energy supply to Customer mpany; the other meter shall measure Customer nerated energy supplied to Company. The meter tents prevent operation of either meter in th verse direction. ditional metering may or may not be required pending on the terms of the contract between mpany and Customer. e-way Power Flow is type of installation does not allow the terchange of energy from Customer to the Comp e intertie circuit breaker will be tripped by
Thi int nor The ins wat cor Con ger det rev Ado dep Cor (2) One Thi int The equ	<pre>is type of installation provides for the terchange of energy in either direction as a rmal operating mode. e revenue metering for Two-way Power Flow stallations shall include two series connected tthour meters with detents. One meter shall k nnected to measure energy supply to Customer mpany; the other meter shall measure Customer nerated energy supplied to Company. The meter tents prevent operation of either meter in th verse direction. ditional metering may or may not be required pending on the terms of the contract between mpany and Customer. e-way Power Flow is type of installation does not allow the terchange of energy from Customer to the Comp e intertie circuit breaker will be tripped by</pre>
int non The ins wat cor Con ger det rev Adc dep Con (2) One Thi int The equ	<pre>terchange of energy in either direction as a rmal operating mode. e revenue metering for Two-way Power Flow stallations shall include two series connected tthour meters with detents. One meter shall k nnected to measure energy supply to Customer mpany; the other meter shall measure Customer nerated energy supplied to Company. The meter tents prevent operation of either meter in th verse direction. ditional metering may or may not be required pending on the terms of the contract between mpany and Customer. e-way Power Flow is type of installation does not allow the terchange of energy from Customer to the Comp e intertie circuit breaker will be tripped by</pre>
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der Con (2) One Thi int The equ	pending on the terms of the contract between mpany and Customer. e-way Power Flow is type of installation does not allow the terchange of energy from Customer to the Comp e intertie circuit breaker will be tripped by
Thi int The equ	is type of installation does not allow the terchange of energy from Customer to the Comp e intertie circuit breaker will be tripped by
int The equ	terchange of energy from Customer to the Comp e intertie circuit breaker will be tripped by
equ	
	ow condition toward the Company's system.
met	is type installation requires a single revent ter installation with detent to prevent opera the meter in the reverse direction.
der	ditional metering may or may not be required pending on the terms of a contract between Co d Customer.
E. Other R	Requirements
a S O U C E	All Customer installations shall adhere to an applicable requirements of the National Elect Safety Code, the National Electric Code, Inst of Electrical and Electronics Engineers (IEEE Inderwriters Laboratories (UL), local electri codes, applicable NEMA codes, OSHA, and Compa Electric Service Rules as set forth in publis cariffs.
p	Customer will bear all interconnection costs parallel operation over and above the normal to serve his load.
* Indicates Change.	FILED Missouri Public Service Commission

June 30, 2013 DATE OF ISSUE	<u> </u>	2010 DATE EFFECTIVE	November 27, 2010
Missouri Public	Warper I Payter	President & CEO	St. Louis, Missouri
Service Commission SSUED BY	<u>Warner L. Baxter</u>	President & CEO	SL. LOUIS, MISSOULI
ET-2013-0546; JE-2013-0582	NAME OF OFFICER	TITLE	ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

	P. S. C. MO., 1	LL. C. C., IA. ST. C. C. SCHEI	DULE NO.	1	lst Revi	sed	_SHEET NO	7
		CANCELLING SCHE			Original		_ SHEET NO	7
	APPLYING TO		MISSO	OURI SERVICE	AREA			
	A.	ELECTRIC POWER	PURCHASE	S FROM QUAL	IFYING FACILIT	CIES - (CC	ONTINUED)	
		(1)	Two-way	Power Flow				
			intercha		lation provid gy in either de.			
			installa watthour connecte UE; the energy s	ations shall meters wit ed to measur other meter supplied to	g for Two-way include two h detents. On e energy supp shall measur UE. The mete meter in the	series co e meter s ly to Cus e Custome r detents	nnected hall be tomer frc r-generat prevent	ed
				ng on the te	may or may n erms of the co			
	1	(2)	One-way	Power Flow				
					lation does n gy from Custo			<i>.</i>
			equipmer	nt capable c	t breaker wil f detecting t rd the UE sys	he revers		
			meter in	nstallation	ion requires with detent t reverse dire	o prevent		on
				ng on the te	may or may n erms of a cont			nd
		E. Othe	er Requir	ements				
		* (1)	applic Safety of Ele Underw codes,	able requir Code, the ctrical and riters Labo applicable ic Service	allations shal ements of the National Elect Electronics F ratories (UL), NEMA codes, (Rules as set f	National tric Code, Engineers , local el DSHA, and	Electric , Institu (IEEE), lectric UE's	te
		(2)	parall		r all intercon n over and abo			t
CANCELLED November 27, 201 Missouri Public Service Commissic	n	* Indicates	change			Ser	FILED /issouri Pub	-
ET-2011-0102; YE-201	P.S.C. Mo. DAT		ber 21, :	2007		January 1 January	, 2008 <u>20, 2008</u>	
	ISSUED BY	T. R. Voss NAME OF OFFICER		President TITLE	& CEO	St. Lou	is, Misso ADDRESS	uri

UNION ELECTRIC COMPANY ELECTRIC SERVICE

APPLYING TO	CANCELI	LING SCH	EDULE NO	SHEET NO7
	••••			
*A.	ELECTRIC	POWER	PURCHASES FROM QUALIFYING FACILITIE	S - (CONTINUED)
		(1)	Two-way Power Flow	
			This type of installation provides interchange of energy in either dir normal operating mode.	for the ection as a
			The revenue metering for Two-way Po installations shall include two ser watthour meters with detents. One m connected to measure energy supply UE; the other meter shall measure C energy supplied to UE. The meter de operation of either meter in the re-	ies connected eter shall be to Customer from ustomer-generated etents prevent
			Additional metering may or may not a depending on the terms of the contra and Customer.	be required act between UE
		(2)	One-way Power Flow	
			This type of installation does not a interchange of energy from Customer	allow the to the utility.
			The intertie circuit breaker will be equipment capable of detecting the p flow condition toward the UE system.	reverse power
			This type installation requires a simeter installation with detent to prof the meter in the reverse direction	revent operation
			Additional metering may or may not k depending on the terms of a contract Customer.	e required between UE and
	Ε.	Othe	r Requirements	
			All Customer installations shall adh applicable requirements of the Natic Safety Code, the National Electric C NEMA codes, OSHA, and UE's Electric set forth in published tariffs.	onal Electrical
			Customer will bear all interconnecti parallel operation over and above th serve his load.	on costs of e normal cost to
	* Indic	ates	Reissue	FILED
				Missouri Public Service Commisio

 CANCELLED
 P.S.C. Mo. DATE OF ISSUE
 August 14, 2003
 DATE EFFECTIVE
 September 13, 2003

 January 1, 2008
 Missouri Public
 ISSUED BY
 C. W. Mueller
 Chairman & CEO
 St. Louis, Missouri

 Service Commission
 NAME OF OFFICER
 TITLE
 ADDRESS

UNION ELECTRIC COMPANY ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO.	1	3rd Revised	SHEET NO.	8

CANCELLING SCHEDULE NO. 1 2nd Revised SHEET NO. 8

APPLYING TO	
APPLYING TO	

MISSOURI SERVICE AREA

B. ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS

I. <u>Application</u>. This tariff applies to Union Electric Company d/b/a Ameren Missouri (Company) purchases of electric energy from Qualified Net Metering Units (hereinafter referred to as "Customer-Generator") under the provisions of Section 386.890RSMo. the 'Net Metering and Easy Connection Act'. The Customer-Generator must meet the general technical requirements, testing requirements, and liability requirements listed under the provisions of Section 386.890RSMo. the 'Net Metering and Easy Connection Act', as well as the requirements specified in the Customer-Generators' applicable rate class under the Company's Schedule 5 - Schedule of Rates for Electric Service. Service under this rate shall be evidenced by a contract between Customer-Generator and the Company per the Interconnection Application/Agreement for Net Metering Systems With Capacity of 100 kW or less.

The availability of net metering is limited to those types of generation that have been certified by the Missouri Department of Natural Resources as renewable energy resources and which is intended primarily to offset part or all of the customer-generator's own electrical energy requirements. Net metering cannot be elected in conjunction with "Optional Time-of-Day Rate" service of any of Company's rate schedule.

Company will provide net metering service until the total rated generating capacity used by Customer-Generators is equal to or in excess of five percent (5.0%) of Company's single-hour peak load during the previous year. However in a given calendar year, no retail electric supplier shall be required to approve any application for interconnection if the total rated generating capacity of all application for interconnection already approved to date by said supplier in said calendar year equals or exceeds one percent (1.0%)of said supplier's single-hour peak load for the previous calendar year.

II.<u>Billing</u>.

- a) <u>Energy Pricing and Billing</u>. Each billing period, Company shall measure the net electrical energy produced or consumed and bill the Customer-Generator as follows:
 - i. If the electricity supplied by Company exceeds the electricity supplied by the Customer-Generator to Company, Company's bill will reflect the net electricity supplied by Company and the Customer-Generator's current service classification.
 - *ii. If the electricity supplied by Company is less than the electricity supplied by the Customer-Generator to Company, Company's bill will include a credit for the net electricity received by Company in accordance with the Net Metering Rate (Avoided Fuel Cost) in Section II.c) below.

b) Minimum Bill

Net metering does not modify or eliminate any customer obligation(s) or billing provision(s) of the Customer's current rate schedule for delivery of electric power and energy such as the Customer Charge or any minimum billing demand (if applicable).

* Indi	cates Change.		FILED Missouri Public Service Commission YE-2013-0208
CANCELLED June 30, 2013 DATE OF ISSU	E October 29, 2012	DATE EFFECTIVE	November 29, 2012 November 28, 2012
Missouri Public Service Commissiol ^{SSUED BY} ET-2013-0546; JE-2013-0582	Warner L. Baxter NAME OF OFFICER	President & CEO TITLE	St. Louis, Missouri ADDRESS

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. <u>1</u>	2nd Revised	SHEET NO. <u>8</u>
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	2nd Revised	SHEET NO 8
F. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDOLL NO		<u></u> 3HLLTNO

CANCELLING SCHEDULE NO. 1 1st Revised SHEET NO. 8

APPLYING TO

MISSOURI SERVICE AREA

B. ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS

*I. Application. This tariff applies to Union Electric Company d/b/a Ameren Missouri (Company) purchases of electric energy from Qualified Net Metering Units (hereinafter referred to as "Customer-Generator") under the provisions of Section 386.890RSMo. the 'Net Metering and Easy Connection Act'. The Customer-Generator must meet the general technical requirements, testing requirements, and liability requirements listed under the provisions of Section 386.890RSMo. the 'Net Metering and Easy Connection Act', as well as the requirements specified in the Customer-Generators' applicable rate class under the Company's Schedule 5 - Schedule of Rates for Electric Service. Service under this rate shall be evidenced by a contract between Customer-Generator and the Company per the Interconnection Application/Agreement for Net Metering Systems With Capacity of 100 kW or less.

The availability of net metering is limited to those types of generation that have been certified by the Missouri Department of Natural Resources as renewable energy resources and which is intended primarily to offset part or all of the customer-generator's own electrical energy requirements. Net metering cannot be elected in conjunction with "Optional Time-of-Day Rate" service of any of Company's rate schedule.

Company will provide net metering service until the total rated generating capacity used by Customer-Generators is equal to or in excess of five percent (5.0%) of Company's single-hour peak load during the previous year. However in a given calendar year, no retail electric supplier shall be required to approve any application for interconnection if the total rated generating capacity of all application for interconnection already approved to date by said supplier in said calendar year equals or exceeds one percent (1.0%)of said supplier's single-hour peak load for the previous calendar year.

II.Billing.

- a) <u>Energy Pricing and Billing</u>. Each billing period, Company shall measure the net electrical energy produced or consumed and bill the Customer-Generator as follows:
 - i. If the electricity supplied by Company exceeds the electricity supplied by the Customer-Generator to Company, Company's bill will reflect the net electricity supplied by Company and the Customer-Generator's current service classification.
 - ii. If the electricity supplied by Company is less than the electricity supplied by the Customer-Generator to Company, Company's bill will include a credit for the net electricity received by Company in accordance with the Non-Time-Differentiated Energy Rates contained in Section A.II.1 herein.

b) Minimum Bill Net metering does not modify or eliminate any customer obligation(s) or billing provision(s) of the Customer's current rate schedule for delivery of electric power and energy such as the Customer Charge or any minimum billing demand (if November 29, 2012 applicable). FILED Missouri Public Missouri Publicates Change. Service Commission Service Commission 11-0102· VE-2011-0 ET-2013-0197, YE-2013-0208 DATE OF ISSUE October 28, 2010 DATE EFFECTIVE November 27, 2010

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
_	NAME OF OFFICER	TITLE	ADDRESS

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO	1	1	st Revised	SHEET NO	8	
CANCELLING SCHEDULE NO	D. <u>1</u>	0	riginal	SHEET NO.	8	
APPLYING TO MI	ISSOURI	SERVICE AREA				

ELECTRIC SERVICE

B. ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS

* I. Application. This tariff applies to Union Electric Company d/b/a AmerenUE (Company) purchases of electric energy from Qualified Net Metering Units (hereinafter referred to as "Customer-Generator") under the provisions of Section 386.890RSMo. the 'Net Metering and Easy Connection Act'. The Customer-Generator must meet the general technical requirements, testing requirements, and liability requirements listed under the provisions of Section 386.890RSMo. the 'Net Metering and Easy Connection Act', as well as the requirements specified in the Customer-Generators' applicable rate class under the Company's Schedule 5 - Schedule of Rates for Electric Service. Service under this rate shall be evidenced by a contract between Customer-Generator and the Company per the Interconnection Application/Agreement for Net Metering Systems With Capacity of 100 kW or less.

The availability of net metering is limited to those types of generation that have been certified by the Missouri Department of Natural Resources as renewable energy resources and which is intended primarily to offset part or all of the customer-generator's own electrical energy requirements. Net metering cannot be elected in conjunction with "Optional Time-of-Day Rate" service of any of Company's rate schedule.

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* II.Billing.

T. R. Voss

NAME OF OFFICER

UNION FLECTRIC COMPANY

- a) <u>Energy Pricing and Billing</u>. Each billing period, Company shall measure the net electrical energy produced or consumed and bill the Customer-Generator as follows:
 - i. If the electricity supplied by Company exceeds the electricity supplied by the Customer-Generator to Company, Company's bill will reflect the net electricity supplied by Company and the Customer-Generator's current service classification.
 - ii. If the electricity supplied by Company is less than the electricity supplied by the Customer-Generator to Company, Company's bill will include a credit for the net electricity received by Company in accordance with the Non-Time-Differentiated Energy Rates contained in Section A.II.1 herein.

 b) <u>Minimum Bill</u> Net metering does not modify or eliminate any customer obligation(s) or billing provision(s) of the Customer's current rate schedule for delivery of electric power and energy such as the Customer Charge or any minimum billing demand (if applicable).
 * Indicates change
 -0217
 P.S.C. Mo. DATE OF ISSUE ______ December 21, 2007 _______ DATE EFFECTIVE ________ January 20, 2008

CANCELLED November 27, 2010 Missouri Public Service Commission ET-2011-0102; YE-2011-0217

ISSUED BY

TITLE	
ET-2008-0393	

President & CEO

St. Louis, Missouri

ADDRESS

	P.S.C. MO. SCHEDULE NO.		Original	SHEET NO8
	CANCELLING SCHEDULE NO.			SHEET NO.
APPLYING TO) 	MISSOURI	SERVICE AREA	
в.	ELECTRIC POWER PURCHA	ASES FROM Q	UALIFIED NET METERI	NG UNITS
1.	referred to as "Custo CSR 240-20.065 of th Customer-Generator mu testing requirements, provisions of Rule 4 specified in the Custo Company's Schedule 5 Service under this r	m Qualifie omer-Genera ust meet f , and liab 4 CSR 240- omer-Genera 5 - Schedu cate shall and the for Net Ma y will pro- g capacity he lesser o percent (0.1	tor") under the pro Public Service Co the general techni ility requirements 20.065 as well as tors' applicable ra the of Rates for be evidenced by a Company per the etering Systems Wit vide net metering used by Customer-Go of ten thousand kilo (18) of the capacity	<pre>nits (hereinafte ovisions of Rule mmission. Th cal requirements listed under th the requirement te class under th Electric Service contract betwee Interconnection h Capacity of 10 service until th enerators is equa bwatts (10,000 kW necessary to mee</pre>
II.	accordance with of Rates for Ele application of th the electric en Company shall be	the Custom the Company actric Serva ne Time-of-I hergy deliva credited no	er-Generator shall y's applicable Sche ice, Service Classi Day billing provisio vered by the Cust under the Time-Diff	l be billed i dule 5 - Schedul fication with th ons. The value o omer-Generator t erentiated Energy
	Mates contained i monthly bill shal	In Section A	A.II.2. herein. Cus otal of these calcul	stomer-Generator' lations.
	b) <u>Customer Charge</u>			
	The amount listed delivery of elect	l for the cu ric power a	istomer's current ra and energy.	ate schedule for
				FILED

 CANCELLED
 P.S.C. Mo. DATE OF ISSUE
 August 14, 2003
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 September 13, 2003

 January 1, 2008
 Missouri Public
 ISSUED BY
 C. W. Mueller
 Chairman & CEO
 St. Louis, Missouri

 Service Commission
 NAME OF OFFICER
 TITLE
 ADDRESS

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO.	1	5th Revised	SHEET NO.	9

APPLYING TO			MTSSOIIRT פדסט	TCE AREA		
	MISSOURI SERVICE AREA					
в.	ELEC	TRIC POWER P	PURCHASES FROM QUA	LIFIED NET METERING	UNITS - (CONTINUED)
*	Sum		te (Avoided Fuel (pplicable during 4 2.06¢ per	monthly billing p	period of	June throug
		ter Rate (A ough May):		8 monthly billin kWh	g periods	of Octobe
			are updated durin tive February 15.	ng each odd-numbere	d year wit	th the updat
III.	star Cust	ndard rates, tomer-Genera	Company shall not	es are made by Com be required to ma and Customer-Gener mases.	ke any pur	chase from
IV.	regu are	ulations as	may be revised fro	e subject to all Co om time-to-time. A on's normal complai	ll terms o	of the tarif:
v.		deline Techn pany's Syste		for Parallel Opera	tion with	the
	1.	Introducti	on			
		planning s installati	such an installatio	Customer-Generator on; however, it is fic requirements ot each installation;	recognized her than t	l that each hose set
	0	Correct 7 -			-	
	2.		chnical Requiremer		-	
	2.		chnical Requirement ction Customer-Generat capable of detect and the Company' Customer-Generat either directly circuit breaker. of interrupting detection sensit	or shall install po ting fault conditions s system. These de or's system from the or through an auxion The separating de the available fault ivity and operating compatible with pro-	cotective of ons on both evices will he Company liary devi- evice must current. g speed of	devices h his system l separate 's system ce such as a be capable The these
	2.	A. Prote	chnical Requirement ction Customer-Generat capable of detect and the Company' Customer-Generat either directly circuit breaker. of interrupting detection sensit devices must be the Company's sy The Customer-Gen to automatically	or shall install po ting fault conditions s system. These de or's system from the or through an auxion The separating de the available fault ivity and operating compatible with pro-	cotective of points on both evices will he Company liary devi- evice must current. g speed of otective device and company speed of otective devices and company speed of the c	devices h his system l separate 's system ce such as a be capable The these evices on nt designed e Company's
	2.	A. Prote	chnical Requirement ction Customer-Generat capable of detect and the Company' Customer-Generat either directly circuit breaker. of interrupting detection sensit devices must be the Company's sy The Customer-Gen to automatically system upon loss The Customer-Generat faults or other	or shall install pr ting fault conditions s system. These de or's system from the or through an auxing The separating de the available fault ivity and operating compatible with pro- stem. erator shall instan- separate his system	cotective of points on both evices will he Company liary devi- evice must current. g speed of otective do lequipment of for the point for pro- such a manife company's	devices h his system 's system ce such as a be capable The these evices on nt designed e Company's y. otecting ner that s system or

 Wissouri Public ISSUED BY
 Warner L. Baxter
 President & CEO
 St. Louis, Missouri

 Service Commission
 NAME OF OFFICER
 TITLE
 ADDRESS
 ET-2013-0546; JE-2013-0582

June 30, 2013

* c) No Sr Sr Vi ti Ti ti Ti ti Ti ti Ti ti ti Sr Ch a V. Gr	Jet Metering Ra Summer Rate (A September): Jinter Rate (Chrough May): The above rates Sypically effect Contract. When Standard rates Customer-Generat a written contract All provisions regulations as a procedures.	MISSOURI SERV PURCHASES FROM QUA ate (Avoided Fuel of pplicable during 1.98¢ per Applicable during 1.75¢ per s are updated duri ctive February 15. ther or not purchas , Company shall no ator until Company ract for such purc of this tariff are may be revised fre	LIFIED NET METERING UNITS - <u>Cost)</u> 4 monthly billing period of kWh 8 monthly billing period kWh ng each odd-numbered year wi ses are made by Company under t be required to make any pur and Customer-Generator have	June throug s of Octobe th the updat r the rchase from entered int
B. <u>EL</u> * c) <u>Nu</u> Su Su Wi ti Ti ty III. <u>Cu</u> Su Cu a IV. Ai ru a V. Gu 1.	Jet Metering Ra Summer Rate (A September): Jinter Rate (Chrough May): The above rates Sypically effect Contract. When Standard rates Customer-Generat a written contract All provisions regulations as a procedures.	PURCHASES FROM QUA ate (Avoided Fuel of pplicable during 1.98¢ per Applicable during 1.75¢ per s are updated duri ctive February 15. ther or not purchan, Company shall no ator until Company ract for such purch of this tariff are may be revised fre	LIFIED NET METERING UNITS - <u>Cost</u>) 4 monthly billing period of kWh 8 monthly billing period kWh ng each odd-numbered year wi ses are made by Company under t be required to make any pur and Customer-Generator have hases. e subject to all Commission :	June throug s of Octobe th the updat r the rchase from entered int
* c) <u>No</u> Si Si Si U U U U V. <u>G</u> U U. <u>G</u> 1.	Jet Metering Ra Summer Rate (A September): Jinter Rate (Chrough May): The above rates Sypically effect Contract. When Standard rates Customer-Generat a written contract All provisions regulations as a procedures.	ate (Avoided Fuel pplicable during 1.98¢ per Applicable during 1.75¢ per s are updated duri ctive February 15. ther or not purcha , Company shall no ator until Company ract for such purch of this tariff are may be revised fre	<u>Cost)</u> 4 monthly billing period of 5 kWh 8 monthly billing period 5 kWh ng each odd-numbered year wi ses are made by Company under t be required to make any pur and Customer-Generator have hases. e subject to all Commission :	June throug s of Octobe th the updat r the rchase from entered int
III. V. Gr V. Gr IV. A Cr a Cr a Cr a IV. A Cr a IV. A Cr a IV. A Cr a II. Cr c a II. Cr c a II. Cr c a II. Cr c a II. Cr c c c c c c c c c c c c c	Summer Rate (A September): Winter Rate (Chrough May): The above rates Sypically effect contract. When standard rates Customer-Generate a written contract all provisions regulations as are also subject procedures.	pplicable during 1.98¢ per Applicable during 1.75¢ per s are updated duri ctive February 15. ther or not purcha , Company shall no ator until Company ract for such purch of this tariff are may be revised fre	4 monthly billing period of kWh 8 monthly billing period kWh ng each odd-numbered year wi ses are made by Company under t be required to make any pur and Customer-Generator have hases. e subject to all Commission :	s of Octobe th the updat r the rchase from entered int
tl TI ty III. <u>Cr</u> a IV. A rr a: p: V. Gr 1.	The above rates cypically effect contract. When standard rates customer-Genera a written contr all provisions regulations as are also subject procedures.	1.75¢ per s are updated duri ctive February 15. ther or not purcha , Company shall no ator until Company ract for such purch of this tariff ar may be revised fr	kWh ng each odd-numbered year wi ses are made by Company under t be required to make any pur and Customer-Generator have hases. e subject to all Commission :	th the updat r the rchase from entered int
III. Constraints of the second	Contract. When standard rates Customer-Genera a written contr all provisions regulations as are also subject procedures.	ther or not purcha , Company shall no ator until Company ract for such purch of this tariff ar may be revised fr	ses are made by Company under t be required to make any pur and Customer-Generator have hases. e subject to all Commission :	r the rchase from entered int
s: Ch a IV. A re a: p: V. Gr <u>C</u> 1.	standard rates Customer-Genera a written contr all provisions regulations as are also subject procedures.	, Company shall no ator until Company ract for such purc of this tariff ar may be revised fr	t be required to make any pu and Customer-Generator have hases. e subject to all Commission :	rchase from entered int
r a: p: V. G <u>C</u> 1.	regulations as are also subject procedures.	may be revised fr	5	
<u>C</u> (1.	1		on's normal complaint and ar	of the tarif
	Guideline Tech Company's Syste		for Parallel Operation with	the
2.				-
2.	as a guide planning s installat	e for Company and such an installati ion may have speci	rth below. These requiremen Customer-Generator engineeri on; however, it is recognize fic requirements other than each installation's unique	ng when d that each those set
	. General Te	echnical Requireme	nts	
	A. Prote	ection		
	(1)	capable of detect and the Company Customer-Generat either directly circuit breaker. of interrupting detection sensit	or's system from the Company or through an auxiliary devi . The separating device must the available fault current. tivity and operating speed of compatible with protective of	th his syste ll separate y's system ice such as t be capable . The f these
	(2)	to automatically	nerator shall install equipme y separate his system from th s of the normal Company suppl	he Company's
	(3)	Customer-Generat faults or other	nerator is responsible for pr tor's equipment in such a mar disturbances on the Company erator's system do not cause	nner that 's system or
* Indicates				FILED souri Public

November 28, 2012 CANCELLED January 24, 2013 DATE OF ISSUE October 29, Missouri Public Service Commission ISSUED BY Warner L. Baxter ET-2013-0351; YE-2013-0313 NAME OF OFFICER October 29, 2012 DATE EFFECTIVE St. Louis, Missouri ADDRESS President & CEO TITLE

UNION ELECTRIC COMPANY ELECTRIC SERVICE

	CANC		DULE NO. 1	2nd Rev	igod	SHEET NO.
	CANC	SELLING SCHEL	MISSOURI SERV		IBEU	
APPLYING TO			MISSOURI SERV	TCE AREA		
в.	ELECTR	RIC POWER P	PURCHASES FROM QUA	LIFIED NET METERI	NG UNITS -	(CONTINUED
* c	Compa kWh. Commi Facil	However ssion has ities (See	est led Fuel Cost as do , this rate is a approved Company' ction A.II.1 here a the Commission's	not applicable t 's use of rates a ein) in lieu of	to net mete applicable t the Avoide	ering as to Qualify d Fuel Co
III.	stand Custo	lard rates, mer-Genera	her or not purchas Company shall not tor until Company act for such purch	t be required to n and Customer-Gen	make any pu	rchase from
IV.	regul are a	ations as	of this tariff are may be revised fro t to the Commission	om time-to-time.	All terms of	of the tari
v.		line Techn Company's S	ical Requirements	for Parallel Ope	ration with	
		Introducti	-			
	2.	installati forth here <u>General Te</u>	such an installation on may have specia in as a result of chnical Requirement	fic requirements each installatio	other than t	those set
		A. Prote	ection			
		(1)	capable of detect and the Company' Customer-Generat either directly circuit breaker. of interrupting detection sensit	the available fau ivity and operatic compatible with p	cions on bot devices wil the Company ciliary devi device must alt current. ing speed of	th his syst l separate 's system ce such as be capabl The these
		(2)	to automatically	nerator shall inst y separate his sys s of the normal Co	stem from th	e Company'
		(3)	Customer-Generat faults or other	nerator is respons cor's equipment ir disturbances on t erator's system do	n such a man che Company'	ner that s system c
			mis equipment.			
* Indica	ites Cha	nge.	nib equipment.			
* Indica CANCELED mber 29, 20 ssouri Public)12	nge.	ins equipment.		Misso Service	FILED ouri Public Commissior 2012-0722

ISSUED BY	Warner	L.	Baxter			
	NAME OF OFFICER					

President & CEO St. Louis, Missouri ADDRESS

UNION ELECTRIC COMPANY ELECTRIC SERVICE

2nd Revised SHEET NO. 9 P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. <u>1</u> CANCELLING SCHEDULE NO. 1 1st Revised SHEET NO. 9 MISSOURI SERVICE AREA APPLYING TO ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS - (CONTINUED) в. * c) Avoided Fuel Cost Company's Avoided Fuel Cost as defined in 4 CSR 240-20.065 is \$0.0163 per However, this rate is not applicable to net metering as the kWh. Commission has approved Company's use of rates applicable to Qualifying Facilities (Section A.II.1 herein) in lieu of the Avoided Fuel Cost, consistent with the Commission's Order in Case No. EX-2008-0280. III. Contract. Whether or not purchases are made by Company under the standard rates, Company shall not be required to make any purchase from Customer-Generator until Company and Customer-Generator have entered into a written contract for such purchases. IV. All provisions of this tariff are subject to all Commission rules and regulations as may be revised from time-to-time. All terms of the tariff are also subject to the Commission's normal complaint and arbitration procedures. Guideline Technical Requirements for Parallel Operation with the v. Company's System. 1. Introduction The minimum technical requirements for safe parallel operation of Customer-Generator's electrical generating facilities with the Company's system are set forth below. These requirements will serve as a guide for Company and Customer-Generator engineering when planning such an installation; however, it is recognized that each installation may have specific requirements other than those set forth herein as a result of each installation's unique nature. 2. General Technical Requirements Α. Protection Customer-Generator shall install protective devices (1)capable of detecting fault conditions on both his system and the Company's system. These devices will separate Customer-Generator's system from the Company's system either directly or through an auxiliary device such as a circuit breaker. The separating device must be capable of interrupting the available fault current. The detection sensitivity and operating speed of these devices must be compatible with protective devices on the Company's system. The Customer-Generator shall install equipment designed (2) to automatically separate his system from the Company's system upon loss of the normal Company supply. (3) The Customer-Generator is responsible for protecting Customer-Generator's equipment in such a manner that faults or other disturbances on the Company's system or on Customer-Generator's system do not cause damage to his equipment. * Indicates Change. CANCELED June 10, 2012 FILED **Missouri Public** Missouri Public Service Commission Service Commission

JE-2011-0572

JE-2012-0722

DATE OF ISSUE _____ May 13, 2011 ____ DATE EFFECTIVE _____ June 12, 2011

ISSUED BY Warner L. Baxter President & CEO <u>St. Louis, Missouri</u> NAME OF OFFICER TITI F ADDRESS

UNION ELECTRIC COMPANY ELECTRIC SERVICE

P. S. C. MO., ILI	C. C., IA.	ST. C. C. SCHED	DULE NO. <u>1</u>	1st Revised	SHEET NO9
	CAN	CELLING SCHED	DULE NO. <u>1</u>	Original	SHEET NO. 9
APPLYING TO			MISSOURI SER	VICE AREA	
**B.		RIC POWER	PURCHASES FROM	QUALIFIED NET METERI	ING UNITS -
* c	Comp \$0.0 mete appl	143 per } ring as t icable to	oided Fuel Cost kWh. However, the Commission	as defined in 4 C this rate is not a has approved Compan acilities (Section A t.	pplicable to net y's use of rates
III.	stan from	dard rates Customer	s, Company shal -Generator unti	rchases are made by C l not be required to l Company and Custome act for such purchase	make any purchase er-Generator have
IV.	and the	regulation tariff are	ns as may be re	f are subject to all vised from time-to-ti to the Commission's n	me. All terms of
v.		eline Tecl any's Syst		ents for Parallel Ope	ration with the
	1.	Introduct	ion		
		operation facilitie These req Customer- installat installat	n of Customer-Ge es with the Comp quirements will Generator engin tion; however, i tion may have sp	equirements for safe p enerator's electrical pany's system are set serve as a guide for meering when planning at is recognized that pecific requirements esult of each installe	generating forth below. Company and such an each other than those
	2.	General T	echnical Requir	rements	
			ection		
		(1)	capable of de system and the will separate Company's sys auxiliary dev separating dev the available sensitivity as	Customer-Generator's tem either directly c ice such as a circuit vice must be capable fault current. The nd operating speed of tible with protective	ons on both his These devices system from the r through an breaker. The of interrupting detection these devices
		(2)	designed to a	Generator shall insta utomatically separate system upon loss of Y.	his system from
*Indica	tes Ad	(3) dition.	protecting Cu manner that fa Company's sys	Generator is responsi stomer-Generator's eq aults or other distur tem or on Customer-Ge damage to his equipme ange.	uipment in such a bances on the merator's system
L					2011-0102; YE-2011-0217
DATE OF ISSUE		October 2	28, 2010	DATE EFFECTIVE Nov	vember 27, 2010

Service Commission JE-2011-0572	ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
		NAME OF OFFICER	TITLE	ADDRESS

CANCELLED June 12, 2011 Missouri Public

P. S. C. MO., 3LI		CANCELLING SCH	<u></u>	ORIGINAL	SHEET NO9
	 	ANUELLING	MISSOURI SERV	VICE AREA	SHEET NO
В.	ELEC	CTRIC POWER	R PURCHASES FROM	QUALIFIED NET METERING	UNITS -
III.	be 1 Unic	pany under required t on Electri	r the standard rai to make any purcha	cchases are made by Unic ites, Union Electric Com hase from Customer-Gener istomer-Generator have e cchases.	mpany shall not rator until
IV.	and the	e tariff ar	ons as may be revi	are subject to all Com rised from time-to-time. to the Commission's norm	. All terms of
v.	Guic Unic	deline Tec on Electri	chnical Requiremer ic System.	nts for Parallel Operat	tion with the
ı	1.	Introduct	tion		
		operation facilitie requireme Generaton however, specific	n of Customer-Gen es with the UE sy ents will serve a r engineering whe it is recognized requirements othe	quirements for safe para nerator's electrical gen ystem are set forth belo as a guide for UE and Cu en planning such an inst d that each installation her than those set forth on's unique nature.	enerating ow. These Customer- Stallation; Dn may baye
	2.	<u>General 1</u>	Technical Require	ments	
		A. Prot	tection		
		(1)	capable of dete system and the separate Custom system either d device such as device must be available fault	capable of interrupting	s on both his ices will from the UE auxiliary he separating ng the on sensitivity

(2)	The Customer-Generator shall install equipment
	designed to automatically separate his system from
	the UE system upon loss of the normal UE supply.

compatible with protective devices on the UE

(3) The Customer-Generator is responsible for protecting Customer-Generator's equipment in such a manner that faults or other disturbances on the UE system or on Customer-Generator's system do not cause damage to his equipment.

CANCELLED November 27, 2010 Missouri Public	,,					FILED Missouri Public Service Commision
Service Commission ET-2011-0102; YE-2011-023	. Mo. Date of	ISSUE _	August	14, 2003	DATE EFFECTIVE	August 28, 2003
ISS	UED BY		Mueller OF OFFICER	<u>Chairman</u> TTL		St. Louis, Missouri ADDRESS

system.

UNION ELECTRIC COMPANY ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. ____ 1st Revised SHEET NO. 10 CANCELLING SCHEDULE NO. 1 SHEET NO. 10 Original MISSOURI SERVICE AREA APPLYING TO ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS -*в. (CONTINUED) (4) Customer-Generator shall furnish information to Company regarding his proposed generation equipment and protective devices prior to parallel operation. Company will check the adequacy of this proposed equipment and its compatibility with protective devices on the Company's system and will either approve as submitted or specify additional equipment which will be required in order to begin parallel operation with the Company's system. (5) All protective relay settings that would affect any Company system relay settings will be specified by Company. These relays will be initially calibrated by Company to assure proper operation. (6) A manual visible disconnect switch must be provided which is under the exclusive jurisdictional control of the Company's dispatcher. This manual switch must have the capability to be locked out of service by a Company-authorized switchman. (7) The above statements are the basic minimum protection requirements that would be associated with parallel generation. Additional requirements and/or equipment would depend on an in-depth study of each proposed connection. B. Operation (1) Under certain conditions the intertie breaker (if one is required) must be operated by Customer-Generator in order for Company to operate the manual disconnect switch. Company may request this action for any of the following reasons: System emergency. a. Inspection of Customer-Generator's generating b. equipment or protective equipment reveals an unsafe condition. c. Customer-Generator's generating equipment interferes with other customers or with the operation of the Company's system. An outage is scheduled on the Company's supply d. circuit or feeder. * Indicates Change. FILED Missouri Public

CANCELLED June 30, 2013 DATE OF ISSUE	October 28, 2010	DATE EFFECTIVE	November 27, 2010
Missouri Public Service Commissiol	Warner L. Baxter	President & CEO	St. Louis, Missouri
ET-2013-0546; JE-2013-0582	NAME OF OFFICER	TITLE	ADDRESS

ET-2011-0102: YE-2011-0217

ELECTRIC SERVICE

	_					SHEET NO10
APPLYING TO	CANCELLING SCH					SHEET NO
		MISS	OURI SERVI	CE AREA		
в.	ELECTRIC POWE (CONTINUED)	R PURCHAS	SES FROM Q	UALIFIED NET ME	TERING U	NITS -
	(4)	regardi protect will ch and its UE syst specify	ng his pro ive device eck the ac compatibi em and wil additiona	or shall furnish posed generations as prior to para- lequacy of this lity with proto l either approv l equipment what parallel opera	on equipm allel ope proposed active de ve as sub ich will	ent and ration. UE equipment vices on the mitted or be required
	(5)	These r	em relay s	lay settings th ettings will be be initially o ration.	e specifi	ed by UE.
	(6)	of the the capa	s under th UE dispatc	disconnect swit e exclusive jur her. This manu be locked out man.	isdictional swite	nal control h must have
	(7)	protect: with par and/or e	ion requir callel gen equipment	nts are the bas ements that wou eration. Addit would depend on connection.	ld be as: ional red	sociated guirements
	B. Oper	ration				
	(1)	one is r Generato disconne	required) n or in orde: ect switch	ditions the int must be operate r for UE to ope . UE may reque ing reasons:	d by Cust rate the	comer- manual
		a. Sys	tem emerge	ncy.		
		b. Insj equ	pection of	Customer-Gener protective equi	rator's g ipment re	enerating veals an
		inte	erferes wi	rator's generat th other custom the UE system.	ing equi	pment ith the
		d. An or i	outage is feeder.	scheduled on th	ne UE supj	ply circuit
LLED 27, 2010 Public						FILED Missouri Public rvice Commision
nmission						st 28, 2003

St. Louis, Missouri ADDRESS

ELECTRIC SERVICE

C	ANCELLING	G SCHEDUI	E NO. <u>1</u>	1;	st Revised	SHEET
PPLYING TO			MISSOURI	SERVICE AREA		
*B. <u>ELECTRI</u>	C POWE	R PURCH	IASES FROM	QUALIFIED NET	METERING UN	ITS (CONT
			properly s with the C includes r	Generator shal synchronizing Company's free cesynchronizin cages or distu	his generatir quency and vol ng his generat	ng equipm ltage. T
	С.	Qualit	y of Servi	ce		
		(1)	generating shall not service be any undesi Such inter	connection of g equipment wi cause any rec eing provided rable effect connection sh vision of IEEE	th the Compar Auction in the to other cust on any Compar nall be pursua	ny's syst e quality comers or ny facili ant to th
			his genera less than	factor of Cus ating equipmer that specific customer cla	nt connected and by retail t	shall not
	D.	Meteri	ng and/or	Additional Di	stribution Eq	quipment
		to mea or con Genera requir additi Custom shall	sure the n sumed by t tor's exis ements or onal distr er-Generat reimburse	ering for Net net amount of the Customer-O sting meter eq if it is nece ribution equip tor's facility the Company f essary additio	electrical er Generator. If guipment does essary for Com oment to accom r, the Custome for the costs	nergy pro E the Cus not meet mpany to mmodate t er-Genera to purch
		be ini the to recove up to occur	tially pai tal costs red from t twelve (12 until the	of the Custome d for by Comp and a reasona the Customer-O) billing per installation ribution equip	oany, and any able interest Generator over riods. Net Me of such meter	amount u charge m the cou etering c c(s) and/
* Indicates	Change	e.				FILED
						Missouri Publi

Missouri Public ISSUED BY

Warner L. Baxter NAME OF OFFICER

President & CEO TITLE

ELECTRIC SERVICE

	P. S. C. MC	D., ILL. C. C., IA.	ST. C. C. SCHED	ULE NO	lst Revi	.sedSHEET NO11
			NCELLING SCHEI		Original	SHEET NO1
	APPLYING			MISSOURI	SERVICE AREA	
	в.	ELECTRIC	POWER PUR	CHASES FROM	QUALIFIED NET METER	ING UNITS (CONTINUED)
			(2)	properly s with the U resynchron	ynchronizing his gen	tage. This includes
			C. Qual:	ity of Servi	се	
			(1)	generating cause any provided to undesirable interconne		UE system shall not ality of service being r cause any facilities. Such uant to the latest
			(2)	his genera less than	ting equipment conne	Generator's load with ected shall not be etail tariff for his
		*	D. Mete	ring and/or .	Additional Distribu	tion Equipment
			to mo or co Gene: requi addi Custo shal inst At ti be i the	easure the non- consumed by the rator's exis- irements or tional distromer-Generated reimburse all the nece the request on nitially pain total costs	et amount of electri- he Customer-Generate ting meter equipment if it is necessary i ibution equipment to or's facility, the the Company for the ssary additional equipment f the Customer-Generate d for by Company, and and a reasonable in	Customer-Generator costs to purchase and uipment. rator, such costs may nd any amount up to terest charge may be
			up to occu:	o twelve (12 r until the		
	*Inc	licates Ch	lange			
CANCELLED November 27, 201 Missouri Public						FILED Missouri Public Service Commission
Service Commissio ET-2011-0102; YE-2011						January 1, 2008
	P.S.C. Mo.	DATE OF ISSUE	Decemb	per 21, 2007	DATE EFFECTIVE	J anuary 20, 2008
	ISSUED BY		L. VOSS		esident & CEO TITLE ET-2008-0393	St. Louis, Missouri ADDRESS

ELECTRIC SERVICE

	L. C. C., IA. ST. C.			ORIGINAL	SHEET NO
	CANCELL	ING SCHED			SHEET NO.
APPLYING TO			MISSOURI SERVIC	E AREA	
в.	FIFCTDIC	DOMED	DUDCUASES FROM OU		
ь.	(CONTINUE	ED)	PURCHASES FROM QU	ALIFIED NET METERI	<u>NG UNITS -</u>
			_		
		(2) (Sustomer-Generator	shall be solely r zing his generation	responsible for
		t	the UE frequency a	nd voltage. This	includes
		נ	esynchronizing hi	s generator(s) aft	er system
		c	outages or disturb	ances.	
	с.	Quali	ty of Service		
		(1) 7	The interconnectio	n of Customer-Gene	erator's
		ç	generating equipme	nt with the UE sys	stem shall not
		י ב	rovided to other	n in the quality c customers or cause	of service being
		e	effect on any UE f	acilities. Such j	nterconnection
		S	hall be pursuant ind 1547.	to the latest revi	sion of IEEE 51
		_			
		(2) I	he power factor o	f Customer-Generat	or's load with
		n t	us generating equipan that specific	ipment connected s d by retail tariff	hall not be les
		a	pplicable custome	r class.	for his
	D.	Meter	ing		
		The re	evenue metering fo	r Net Metering sha	all include two
		series	s connected watthc	ur meters with def	tents. One mete
		Custor	mer-Generator from	easure energy sup Company during th	ply to the hilling
		period	1; the other meter	shall measure Cus	stomer-Generator
		genera	ted energy from t	he Customer-Genera	ator to Company
		operat	ion of either met	od. The meter det er in the reverse	ients prevent direction. The
		Custon	mer-Generator is r	esponsible for add	ditional meterir
		costs	for the metering	equipment required	l for metering
		order	to properly measu	tomer-Generator to re the net energy	Company. In
		Custon	er-Generator to C	ompany, meters car	able of
		measur	ing 15 minute int	erval usage may be	e required.
					FILED
					Missouri Public
					Service Commisi

Chairman & CEO

TITLE

St. Louis, Missouri ADDRESS

CANCELLED January 1, 2008 SSUED BY Missouri Public Service Commission

C. W. Mueller NAME OF OFFICER

ELECTRIC SERVICE

Ist Revised SHEET NO NG TO MISSOURI SERVICE AREA . ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS-(CONTIN E. Other Requirements (1) All Customer-Generator installations shall adhe to any applicable requirements of the National Electrical Safety Code, the National Electric O Institute of Electrical and Electronics Enginee (IEEE), Underwriters Laboratories (U.), local electric codes, applicable NEMA codes, OSHA, ar Company's Electric Service Rules as set forth i published tariffs.		CAN		SCHEDU				<u>2nd Re</u> 1st Re		SHEFT
 ELECTRIC POWER PURCHASES FROM QUALIFIED NET METERING UNITS-(CONTINE) E. Other Requirements (1) All Customer-Generator installations shall adhed to any applicable requirements of the National Electrical Safety Code, the National Electric (Institute of Electrical and Electronics Engine) (IEEE), Underwriters Laboratories (UL), local electric codes, applicable NEMA codes, OSHA, ar Company's Electric Service Rules as set forth : 									vibcu	ONEETT
 E. Other Requirements (1) All Customer-Generator installations shall adhed to any applicable requirements of the National Electrical Safety Code, the National Electric of Institute of Electrical and Electronics Engineer (IEEE), Underwriters Laboratories (UL), local electric codes, applicable NEMA codes, OSHA, an Company's Electric Service Rules as set forth and the set of the se										
 E. Other Requirements (1) All Customer-Generator installations shall adhe to any applicable requirements of the National Electrical Safety Code, the National Electric O Institute of Electrical and Electronics Engines (IEEE), Underwriters Laboratories (UL), local electric codes, applicable NEMA codes, OSHA, ar Company's Electric Service Rules as set forth : 	*в.	ELECTRIC	POWER	PURC	HASES F	ROM Q	UALIFIE	D NET MET	TERING UI	NITS-(CONTI
(1) All Customer-Generator installations shall adhe to any applicable requirements of the National Electrical Safety Code, the National Electric of Institute of Electrical and Electronics Engine (IEEE), Underwriters Laboratories (UL), local electric codes, applicable NEMA codes, OSHA, an Company's Electric Service Rules as set forth			E C)ther	Require	ement	7			
to any applicable requirements of the National Electrical Safety Code, the National Electric Institute of Electrical and Electronics Engine (IEEE), Underwriters Laboratories (UL), local electric codes, applicable NEMA codes, OSHA, a Company's Electric Service Rules as set forth										
					Electr: Institu (IEEE) electr: Company	ical a ute o , Und ic co y's E	Safety C f Electr erwriter des, app lectric	Code, the rical and rs Labora plicable	Nationa Electro tories (NEMA cod	l Electric nics Engine UL), local es, OSHA, a
	*Indi	icates Ch	lange.							FILED Missouri Public
									S	ervice Commissio

UNION ELECTRIC COMPANY ELECTRIC SERVICE

APPLYING T B.		NCELLING	SCHEDU	LE NO. 1		Origina	1	SHEET NO.	12
	0			MERCON					
в.				MISSOC	RI SERVIO	CE AREA			
в.		חשואסמ	סתוזם	UNCEC PI		FIED NET METER	TNO INITO		
	ELECIRIC					FIED NEI MEIER	ING UNITS-	CONTINUE	<u>D)</u>
1		E. C	ther	Require	ments				
		* (to any Electri Institu (IEEE), electri UE's El	applicabl cal Safet te of Ele Underwri c codes,	erator install e requirements by Code, the Na ectrical and El ters Laborator applicable NEM ervice Rules as s.	s of the National Electronics ries (UL), MA codes, (ational ectric Co Engineer local DSHA, and	de, s
*Ind	icates Ch	lange						FILED Aissouri Pub	
o <u>n</u> 1-0217							January 1		, 9101
P.S.C. Mo. 1	DATE OF ISSUE	De	cembe	r 21, 20	07		J anuary	20, 2008	

Service Commission

ELECTRIC SERVICE

	P. S. C. MO., IL	L. C. C., IA. ST. C. (C. SCHEDULE	NO. <u>1</u>	ORIGINA	<u>ь </u>	ETNO. 1
		CANCELLIN	NG SCHEDULE			SHE	ET NO.
	APPLYING TO			MISSOURI SERV	VICE AREA		
	в.	FIECHDIC					
	В.	(CONTINUE)	D)	RCHASES FROM	QUALIFIED NET ME	ETERING UNITS	
		Ε.	Other Re	equirements			
			(1) All	Customer-Gen	merator installa	tions shall ac	ihere to
			any	applicable r	equirements of	the National	
			app	licable NEMA	y Code, the Nat codes, OSHA, and	ional Electric d UE's Electri	Code,
			Ser	vice Rules as	set forth in p	ublished tari	fs.
			(2) Cus	tomer-Generat	or will bear al.	1 intercontest	
			COS	ts of paralle	1 operation ove:	r and above th	ie le
			nor	mal cost to s	erve his load.	-	-
	j						
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							LED
							uri Public
							Commisio
ICELLED	P.S.C. Mo. DATE O	F ISSUE	August	14, 2003		August 28, 2	
ary 1, 2008		C. W. Muel	ller	Chairman		St. Louis, M	
ouri Public		NAME OF OFFI	CER	TITI	LE	ADDRE	

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1

3rd Revised 2nd Revised

SHEET NO. SHEET NO. 13

13

CANCELLING SCHEDULE NO. 1

MISSOURI SERVICE AREA

APPLYING TO

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH **CAPACITY OF 100 kW OR LESS**

Ameren Missouri Address:

One Ameren Plaza 1901 Chouteau Avenue P.O. Box 66149, MC 1450 St. Louis MO 63103 Att: General Executive, Renewables

*For Customers Applying for Interconnection:

If you are interested in applying for interconnection to the electrical system of Union Electric Company d/b/a Ameren Missouri (Company), you should first contact Company and ask for information related to interconnection of parallel generation equipment to Company's system and you should understand this information before proceeding with this Application.

If you wish to apply for interconnection to Company's electrical system, please complete sections A, B, C, and D, and attach the plans and specifications including, but not limited to, describing the net metering, parallel generation, and interconnection facilities (hereinafter collectively referred to as the "Customer-Generator's System") and submit them to Company at the address above.

The Company will provide notice of approval or denial within thirty (30) days of receipt by Company for Customer-Generators of ten kilowatts (10 kW) or less and within ninety (90) days of receipt by Company for Customer-Generators of greater than ten kilowatts (10 kW). If this Application is denied, you will be provided with the reason(s) for the denial. If this Application is approved and signed by both you and Company, it shall become a binding contract and shall govern your relationship with Company.

*For Customers Who Have Received Approval of **Customer-Generator System Plans and Specifications:**

After receiving approval of your Application, it will be necessary to construct the Customer-Generator System in compliance with the plans and specifications described in the Application, complete sections E and F of this Application, and forward this Application to Company for review and completion of section G at the address above. Prior to the interconnection of the qualified generation unit to Company's system, the Customer-Generator will furnish Company a certification from a qualified professional electrician or engineer that the installation meets the plans and specification described in the application and, if a local Authority Housing Jurisdiction (AHJ) is applicable, the permit number and approval certification. If the application for interconnection is approved by Company and the Customer-Generator does not complete the interconnection within one (1) year after receipt of notice of the approval, the approval shall expire and the Customer-Generator shall be responsible for filing a new application.

Company will complete the utility portion of section G and, upon receipt of a completed Application/Agreement form and payment of any applicable fees, schedule a date for interconnection of the Customer-Generator System to Company's electrical system within fifteen (15) days of receipt by Company if electric service already exists to the premises, unless the Customer-Generator and Company agree to a later date. Similarly, upon receipt of a completed Application/Agreement form and payment of any applicable fees, if electric service does not exist to the premises, Company will schedule a date for interconnection of the Customer-Generator System to Company's electrical system no later than fifteen (15) days after service is established to the premises, unless the Customer-Generator and Company agree to a later date.

******For Customers Who Are Installing Solar Systems:

Upon completion of section H and I, a rebate of \$2/watt up to 25,000 watts (25kW) is available from Company on an expanded or new system that becomes operational after 12/31/2009 with a maximum rebate of \$50,000. Please refer to Company's Rider SR – Solar Rebate for additional details and requirements. FILED

* Indicates Change. ** Indicates Addition.

Missouri Public Service Commission YE-2013-0208

CANCELLED DATE OF ISSU	E October 29, 2012	DATE EFFECTIVE	November 28, 2012
June 30, 2013 Missouri Public ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
Service Commission	NAME OF OFFICER	TITLE	ADDRESS

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. <u>1</u>

CANCELLING SCHEDULE NO. 1

2nd Revised

1st Revised

____SHEET NO. ____13 ____SHEET NO. ____13

ADDRESS

APPLYING TO

NAME OF OFFICER

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS

<u>For Customers Applying for Interconnection:</u>**

If you are interested in applying for interconnection to the electrical system of Union Electric Company d/b/a Ameren Missouri (Company), you should first contact Company and ask for information related to interconnection of parallel generation equipment to Company's system and you should understand this information before proceeding with this Application. If you wish to apply for interconnection to Company's electrical system, please complete sections A, B, C, and D, and attach complete plans, specifications, schematics and wiring diagrams describing the net metering, parallel generation, and interconnection facilities (hereinafter collectively referred to as the "Customer-Generator's System") and submit them to Company at:

One Ameren Plaza 1901 Chouteau Avenue * P.O. Box 66149, MC 611 St. Louis MO 63103 **Att: General Executive, Renewables

You will be provided with an approval or denial of this Application. Company will provide notice of approval or denial within thirty (30) days of receipt by Company for Customer-Generators of 10 kW or less and within ninety (90) days of receipt by Company for Customer-Generators greater than 10 kW. If this Application is denied, you will be provided with the reason(s) for the denial. If this Application is approved and signed by both you and Company, it shall become a binding contract and shall govern your relationship with Company.

For Customers Who Have Received Approval of

Customer-Generator System Plans and Specifications:

After receiving approval of your Application, it will be necessary to construct the Customer-Generator System in compliance with the plans and specifications described in the Application, complete sections E and F of this Application, and forward this Application to Company for review and completion of section G at:

One Ameren Plaza 1901 Chouteau Avenue * P.O. Box 66149, MC 611 St. Louis MO 63103 **Att: General Executive, Renewables

Company will complete the utility portion of section G and, upon receipt of a completed Application/Agreement form and payment of any applicable fees, permit interconnection of the Customer-Generator System to Company's electrical system. Customer-Generator will have one (1) year from the time of Company's approval to complete the interconnection after which time, the approval shall expire and the Customer-Generator shall be responsible for filing a new application.

For Customers Who Are Assuming Ownership or Operational

Control of an Existing Customer-Generator System:

If no changes are being made to the existing Customer-Generator System, complete sections A, D and F of this Application/Agreement and forward to Company at:

One Ameren Plaza 1901 Chouteau Avenue * P.O. Box 66149, MC 611 St. Louis MO 63103 *Att: Conoral Executiva Panavabl

TITI F

**Att: General Executive, Renewables

 November
 FILED

 Missouri Public
 Missouri Public

 Service Commission
 ET-2011-0102; YE-2011-0217

 ET-2013-0102; YE-2013-0208
 October 28, 2010

 ISSUED BY
 Warner L. Baxter
 President & CEO

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO.	1	lst Revised	SHEET NO.	13
CANCELLING SCHEDULE NO.	1	Original	SHEET NO.	13

APPLYING TO

S ET-20 MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS

***** For Customers Applying for Interconnection:

If you are interested in applying for interconnection to the electrical system of Union Electric Company d/b/a AmerenUE (Company), you should first contact Company and ask for information related to interconnection of parallel generation equipment to Company's system and you should understand this information before proceeding with this Application. If you wish to apply for interconnection to Company's electrical system, please complete sections A, B, C, and D, and attach complete plans, specifications, schematics and wiring diagrams describing the net metering, parallel generation, and interconnection facilities (hereinafter collectively referred to as the "Customer-Generator's System") and submit them to Company at:

One Ameren Plaza
1901 Chouteau Avenue
St. Louis MO 63103
Att: Manager Regulatory

You will be provided with an approval or denial of this Application. Company will provide notice of approval or denial within thirty (30) days of receipt by Company for Customer-Generators of 10 kW or less and within ninety (90) days of receipt by Company for Customer-Generators greater than 10 kW. If this Application is denied, you will be provided with the reason(s) for the denial. If this Application is approved and signed by both you and Company, it shall become a binding contract and shal govern your relationship with Company.

* For Customers Who Have Received Approval of

Customer-Generator System Plans and Specifications:

After receiving approval of your Application, it will be necessary to construct theCustomer-Generator System in compliance with the plans and specifications described in the Application, complete sections E and F of this Application, and forward this Application to Company for review and completion of section G at:

One Ameren Plaza 1901 Chouteau Avenue St. Louis MO 63103 Att: Manager Regulatory

Company will complete the utility portion of section G and, upon receipt of a completed Application/Agreement form and payment of any applicable fees, permit interconnection of the CustomerGenerator System to Company's electrical system. Customer-Generator will have one (1) year from the time of Company's approval to complete the interconnection after which time, the approval shall expire and the CustomerGenerator shall be responsible for filing a new application.

* For Customers Who Are Assuming Ownership or Operational Control of an Existing Customer-Generator System:

If no changes are being made to the existing Customer-Generator System, complete sections A, D and F of this Application/Agreement and forward to Company at:

	ripplication, rigited		sompany an		
			One Ame 1901 Chout St. Louis N Att: Manage	eau Avenue 10 63103	
CANCELLED November 27, 201	*Indicates Change				FILED
Missouri Public	0				Missouri Public
Service Commissio					Service Commission
011-0102; YE-2011	1-0217				January 1, 2008
	P.S.C. Mo. DATE OF ISSUE	December 2	1, 2007	DATE EFFECTIVE	January 20, 2008
	ISSUED BY T. F	. Voss	Presid	ent & CEO	St. Louis, Missouri
	NAM	E OF OFFICER	ET-2	TITLE 008-0393	ADDRESS

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1

CANCELLING SCHEDULE NO.

ORIGINAL

SHEET NO. 13

APPLYING TO

MISSOURI SERVICE AREA

SHEET NO.

ADDRESS

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS

For Customers Applying for Interconnection:

If you are interested in applying for interconnection to Union Electric Company's (Company) electrical system, you should first contact Company and ask for information related to interconnection of parallel generation equipment to Company's system and you should understand this information before proceeding with this Application. If you wish to apply for interconnection to Company's electrical system, please complete sections A, B, C, and D, and attach the plans and specifications describing the net metering, parallel generation, and interconnection facilities (hereinafter collectively referred to as the "Customer-Generator's System") and submit them to Company at:

> One Ameren Plaza 1901 Chouteau Avenue St. Louis MO 63103 Att: Manager Regulatory Development

You will be provided with an approval or denial of this Application within ninety (90) days of receipt by Company. If this Application is denied, you will be provided with the reason(s) for the denial. If this Application is approved and signed by both you and Company, it shall become a binding contract and shall govern your relationship with Company.

For Customers Who Have Received Approval of Customer-Generator System Plans and Specifications:

After receiving approval of your Application, it will be necessary to construct the Customer-Generator System in compliance with the plans and specifications described in the Application, complete sections E and F of this Application, and forward this Application to Company for review and completion of section G at:

> One Ameren Plaza 1901 Chouteau Avenue St. Louis MO 63103 Att: Manager Regulatory Development

Company will complete the utility portion of section G and, upon receipt of a completed Application/Agreement form and payment of any applicable fees, permit interconnection of the Customer-Generator System to Company's electrical system within fifteen (15) days of receipt by Company if electric service already exists to the premises, unless the Customer-Generator and Company agree to a later date. Similarly, upon receipt of a completed Application/Agreement form and payment of any applicable fees, if electric service does not exist to the premises, Company will permit interconnection of the Customer-Generator System to Company's electrical system no later than fifteen (15) days after service is established to the premises, unless the Customer-Generator and Company agree to a later date.

For Customers Who Are Assuming Ownership or Operational Control of an Existing Customer-Generator System:

If no changes are being made to the existing Customer-Generator System, complete sections A, D and F of this Application/Agreement and forward to Company at:

	Att: N	One Amer 1901 Choute St. Louis M Manager Regula	eau Avenue	FILED Missouri Public Service Commision
P.S.C. Mo. DATE OF ISSUE	August 14	, 2003		August 28, 2003
	Mueller FOFFICER	<u>Ch</u> airm	an & CEO	St. Louis, Missouri

January 1, 2008 **Missouri Public** Service Commission

CANCELLED

APPLYING TO

ELECTRIC SERVICE

P.S.C.MO., ILL.C.C., IA. ST.C.C. SCHEDULE NO. 1 3rd Revised SHEET NO. 14
--

2nd Revised

SHEET NO. 14

CANCELLING SCHEDULE NO. 1

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

*For Customers Who Are Assuming Ownership or Operational **Control of an Existing Customer-Generator System:**

If no changes are being made to the existing Customer-Generator System, complete sections A, D and F of this Application/Agreement and forward to Company at the address above. Company will review the new Application/Agreement and shall approve such, within fifteen (15) days of receipt by Company, if the new Customer-Generator has satisfactorily completed Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. There are no fees or charges for the Customer-Generator who is assuming ownership or operational control of an existing Customer-Generator System if no modifications are being proposed to that System.

*A. Customer-Generator's Information

Name on Company Electric Account:	
Mailing Address:	
City: State:	Zip Code:
Service/Street Address (if different from above):	
City: State:	Zip Code:
Electric Account Holder Contact Person:	
Daytime Phone: Fax: E-Ma	il:
Emergency Contact Phone:	
Company Account No. (from Utility Bill):	
If account has multiple meters, provide the meter number to which genera	ation will be connected:
*B. Customer-Generator's System Information	
	AC on DC (circle one)
Manufacturer Name Plate: Power Rating:kW Voltage:Volt	
-	
System Type:Wind,Fuel Cell,Solar Thermal,Photov Other (describe)	-
Inverter/Interconnection Equipment Manufacturer: Inverter/Interconnection Equipment Model No.:	
Inverter/Interconnection Equipment Location (describe):	
Outdoor Manual/Utility Accessible & Lookable Disconnect Switch Distor	
Outdoor Manual/Utility Accessible & Lockable Disconnect Switch Distar	
Describe the location of the disconnect switch:	
If disconnect switch is greater than 10 feet from electric service meter, des	scribe why an alternate location is
	•
being requested:	FILED Missouri Public
* Indicates Change.	Service Commission
	YE-2013-0208
CANCELLED DATE OF ISSUE October 29, 2012 DATE EFFECTIVE	November 29, 2012
Missouri Public ISSUED BY Warner L. Baxter President & CEO	
Service Commission NAME OF OFFICER TITLE	ADDRESS

UNION ELECTRIC COMPANY **ELECTRIC SERVICE**

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1	1	2nd Revised
CANCELLING SCHEDULE NO. 3	1	1st Revised

SHEET NO. 14 SHEET NO. 14

APPLYING TO

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

Company will review the new Application/Agreement and shall approve such if the new Customer-Generator has satisfactorily completed Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. There are no fees or charges for the Customer-Generator who is assuming ownership or operational control of an existing Customer-Generator System if no modifications are being proposed to that System.

A. Customer-Generator's Information

City:	~						
City:	•					-	
Daytime Phone:	Service/Street A	ddress (if differ	ent from above): _				
Emergency Contact Phone:	City:			State:		Zip Code	:
Company Account No. (from Utility Bill): *B. Customer-Generator's System Information System Type/Manufacturer Name Plate Capacity: Photovoltaic Wind DC Power Rating	Daytime Phone:		Fax:		E-M	ail:	
*B. Customer-Generator's System Information System Type/Manufacturer Name Plate Capacity: PhotovoltaicWindDC Power RatingkWVoltageVolts Solar/ThermalThermalFuel CellHydroelectricOther (describe)(circle one) DC / AC Power RatingkWVoltageVolts Service/Street Address:	Emergency Con	tact Phone:					
System Type/Manufacturer Name Plate Capacity: PhotovoltaicWindDC Power RatingkWVoltageVolts Solar/ThermalThermalFuel CellHydroelectricOther (describe)	Company Accou	unt No. (from U	tility Bill):				
System Type/Manufacturer Name Plate Capacity: PhotovoltaicWindDC Power RatingkWVoltageVolts Solar/ThermalThermalFuel CellHydroelectricOther (describe)							
Photovoltaic Wind DC Power Rating kW Voltage Volts Solar/Thermal Thermal Fuel Cell Hydroelectric Other (describe) (circle one) DC / AC Power Rating kW Voltage Volts Service/Street Address:	*B. Custome	er-Generato	r's System In	formation			
Solar/Thermal Thermal Fuel Cell Hydroelectric Other (describe) (circle one) DC / AC Power Rating kW Voltage Volts Service/Street Address: Inverter/Interconnection Equipment Manufacturer: Inverter/Interconnection Equipment Model No.: Are Required System Plans & Specifications Attached? Yes No Inverter/Interconnection Equipment Location (describe):	System Type/M	anufacturer Nan	ne Plate Capacity:				
(circle one) DC / AC Power Rating kW Voltage Volts Service/Street Address: Inverter/Interconnection Equipment Manufacturer: Inverter/Interconnection Equipment Model No.: Are Required System Plans & Specifications Attached? Yes No Inverter/Interconnection Equipment Location (describe): Outdoor Manual/Utility Accessible & Lockable Disconnect Switch Location (describe): Existing Electrical Service Capacity: Amperes Voltage: Volts Service Character: Single Phase Three Phase NCELED	Photovoltaic	Wind	DC Power Rating	g	kW	Voltage	Volts
(circle one) DC / AC Power Rating kW Voltage Volts Service/Street Address:	Solar/Thermal	Thermal	Fuel Cell	Hvdroelectri	c (Other (describe)	
Service/Street Address: Inverter/Interconnection Equipment Manufacturer: Inverter/Interconnection Equipment Model No.: Are Required System Plans & Specifications Attached? Yes Inverter/Interconnection Equipment Location (describe):				•		· · · · ·	
Inverter/Interconnection Equipment Manufacturer:							
Inverter/Interconnection Equipment Model No.:	Service/Street A	ddress:					
Are Required System Plans & Specifications Attached? YesNo Inverter/Interconnection Equipment Location (describe):	Inverter/Intercon	nnection Equipn	nent Manufacturer	:			
Inverter/Interconnection Equipment Location (describe):	Inverter/Intercon	nnection Equipn	nent Model No.: _				
Outdoor Manual/Utility Accessible & Lockable Disconnect Switch Location (describe):	Are Required Sy	ystem Plans & S	pecifications Atta	ched? Yes	_ No		
Existing Electrical Service Capacity: Amperes Voltage: Volts Service Character: Single Phase Three Phase NCELED NCELED Ladig atom Change. FILED Missouri Public Service Commission ET-2011-0102; YE-20	Inverter/Intercon	nnection Equipn	nent Location (des	cribe):			
Existing Electrical Service Capacity: Amperes Voltage: Volts Service Character: Single Phase Three Phase NCELED NCELED Souri Public Commission ET-2011-0102; YE-20							
Existing Electrical Service Capacity: Amperes Voltage: Volts Service Character: Single Phase Three Phase NCELED NCELED NCELED Couri Public Commission FILED Missouri Public Service Commission ET-2011-0102; YE-20	Outdoor Manua	l/Utility Accessi	ble & Lockable D	isconnect Switc	h Loca	tion (describe):	
Service Character: Single Phase Three Phase NCELED * Indicates Change. FILED souri Public Service Commission ET-2011-0102; YE-20		, j				(
Service Character: Single Phase Three Phase NCELED beindigates Change. FILED souri Public Service Commission ET-2011-0102; YE-20							
Service Character: Single Phase Three Phase NCELED * Indicates Change. FILED souri Public Service Commission ET-2011-0102; YE-20	Existing Electric	Convice	oity:	Amporos Vo	ltago:	Volta	
NCELED being states Change. FILED ouri Public Missouri Public Commission ET-2011-0102; YE-20					mage	voits	
being age Change. FILED souri Public Missouri Public Commission ET-2011-0102; YE-20		er: Single Phase	Inree Pha	se			
ouri Public Missouri Publi Commission ET-2011-0102; YE-20	bendis ates Char	nge.					
e Commission ET-2011-0102; YE-20	ouri Public						
ظرُوبِ العَ ادَةِ العَادَةِ العَادَةِ العَادَةِ 13-1400 October 28, 2010 DATE EFFECTIVE <u>November 27,</u>	Commission						
		200					
NAME OF OFFICER TITLE ADDRE	PFOFIESDE <u>13-02</u>			esident & (ouis, Mi

UNION ELECTRIC COMPANY	ELECTRIC SERVICE
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P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1 1st Revised SHEET NO. 14 CANCELLING SCHEDULE NO. 1 Original SHEET NO. 14

APPLYING TO

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

* Company will review the new Application/Agreement and shall approve such if the new Customer-Generator has satisfactorily completed Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. There are no fees or charges for the Customer-Generator who is assuming ownership or operational control of an existing Customer-Generator System if no modifications are being proposed to that System.

Customer-Generator's Information ٨

	A. Customer-Generator S			
	Name:			
	Mailing Address: City:	State:	Zin Code:	
	City	from above)	<i>Zip</i> Code	
	Service/Street Address (if different City: Daytime Phone:	State:	7in Code:	
	Dautime Phone:	State	Zip Coue F_Mail:	·
	Emergen av Contact Phone:			
	Emergency Contact Phone: Company Account No. (from Utility			
	Company Account No. (nom Others	/ Bill)		
	B. Customer-Generator's Manufacturer Name Plate (if applica System Type: Solar Wind Bio	able) AC Power Rating omass Fuel Cell	g: kW Voltage:	
	Service/Street Address:			
	Inverter/Interconnection Equipment			
	Inverter/Interconnection Equipment			
	Are Required System Plans & Speci			
	Inverter/Interconnection Equipment	Location (describe):		
	Outdoor Manual/Utility Acces	ssible & Lockab	le Disconnect Sv	vitch Location (describe):
	Existing Electrical Service Capacity	·· Amneres	Voltage:	Volts
	Service Character: Single Phase			
	C. Installation Information	n/Hardware and	Installation Con	npliance
	Person or Company Installing:			
	Contractor's License No. (if applica	ble):		
	Approximate Installation Date:			
	Mailing Address:			
	Mailing Address: City: Daytime Phone:	State:	Zip Code:	·
	Daytime Phone:	Fax:	E-Mail:	
	Person or Agency Who Will Inspect	Certify Installation:		
CANCELLED	* Indicates Change			FILED
November 27, 201 Missouri Public	maleutes change			Missouri Public
Service Commissio				Service Commission
ET-2011-0102; YE-201				January 1, 2008
- ,				······································
	P.S.C. Mo. DATE OF ISSUE December	r 21, 2007	DATE EFFECTIVE	J anuary 20, 2008
	ISSUED BY T. R. VOSS	D		
	1. 1. 1. 1000	Preside	nt & CEO	St. Louis, Missouri

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1

ORIGINAL

SHEET NO. 14

APPLYING TO

CANCELLING SCHEDULE NO. __________ MISSOURI SERVICE AREA

SHEET NO.

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS – (CONTINUED)

Company will review the new Application/Agreement and shall approve such, within fifteen (15) days of receipt by Company if the new Customer-Generator has satisfactorily completed Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. There are no fees or charges for the Customer-Generator who is assuming ownership or operational control of an existing Customer-Generator System if no modifications are being proposed to that System.

A. Customer-Generator's Information

Name:				
Mailing Address:				
Citv		States	Zip Code:	
Service/Street Addres	s (if different from ab	ove):		
City:		State:	Zip Code: Zip Code: E-Mail:	
Daytime Phone:	Fax:		E-Mail:	
EITICIZCIUS CUITACI P	none:			
Company Account No	o. (from Utility Bill):			
B. Customer-Ge Manufacturer Name P System Type: Solar Service/Street Address Inverter/Interconnection Are Required System	Plate (if applicable) A(Wind Biomass s: s: on Equipment Manufa on Equipment Model Plans & Specification	C Power Ratin _ Fuel Cell acturer: No.: s Attached?	g: kW Voltage: Other (describe) Yes No	
	unity Accessible	& Lockat	ole Disconnect S	Switch Location (describe):
Person or Company In Contractor's License N	stalling:	lware and	Installation Co	-
vpproximate installati	on Date:			• • • • • • • • • • • • • • • • • • •
Aailing Address:				
ity:		State:	Zip Code: E-Mail:	
)aytime Phone:	Fax:		E-Mail:	
erson or Agency Who	Will Inspect/Certify	Installation:		
				FILED
				Missouri Public Service Commisio
				August 28, 2003
Mo. DATE OF ISSUE	August 14,	2003		-September 13, 2003-
DBY <u>C.W.</u>	Mueller			.
	OFFICER		n & CEO	St. Louis, Missouri

January 1, 2008	IS
Missouri Public	
Service Commissio	n

CANCELLED

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. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. CANCELLING SCHEDULE NO.			.sed		
				ONLET NO	
INTERCONNECTION APPLICATI			ETERING SY	STEMS WIT	H
		R LESS – (CONTIN			
*B. Customer-Generator's Sys	tem Inform	ation (Continue	ed)		
Existing Electrical Service Capacity:		· ·	•		
Service Character: Single Phase Th					
Total capacity of existing Customer-Gene			kW		
	•				
System Plans, Specifications and Wi	iring Diagran	n must be <u>attached</u>	<u>d</u> for a valid a	application.	
*C. Installation Information/Ha	rdware and	Installation Co	ompliance		
Company Installing System:					
Contact Person of Company Installing Sys	stem:	Ph	one Number		
Contractor's License No. (if applicable): _					
Approximate Installation Date:					
Mailing Address:					
City:					
Daytime Phone: Fax: _			-		
Code (NESC), National Electrical Code Underwriters Laboratories (UL) requirem System type, these requirements include installation complies with all applicable Company. The proposed System has a Company personnel located within the v cases where Company has approved an lockable, visible disconnect device, access a visible, lockable, and accessible disconnect	ents for electric e, but are not le e local electric a lockable, visi icinity of the C a alternate loca sible to Compa ect, no redunda	cal equipment and the imited to, UL 1741 cal codes and all re- ble AC disconnect of Customer-Generator's tion). The System ny. If the interconnect nt device is needed to	heir installation and IEEE 15 easonable safet device, accessis s electric servic is only require ection equipme o meet this requ	h. As applicab 47. The prop ty requirement ble at all time ce meter (excep- red to include nt is equipped uirement.	le t ose cs c es t pt i on wit
The Customer-Generator's proposed Syst overvoltage, undervoltage, overfrequence synchronization to Company's electrical that prevents the generator from continuin or operating normally. If the proposed S either through energy storage or back-up for this backup source that prevents any b system is not energized or not operating n	cy, underfreque system. The ng to supply po System is desig generation, the backflow of pow	ency, and overcurred proposed System do wer when Company ned to provide unint proposed System in	ent, and to present, and to present, and to present an anti- 's electric system cerruptible pown cludes a parall	rovide for System i-islanding func- em is not energe er to critical lo el blocking sch	ster ctio gize pads nem
Signed (Installer):			Date:		
Name (Print):					
				FILED	
* Indicates Change.				souri Public	
			Servic	ce Commissio	n

CANCELLED June 30, 2013 DATE OF ISSUE	October 29,	2012 DATE EFFECTIVE	November 29, 2012 November 28, 2012
Missouri Public			I I
Service Commission SUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS
ET-2013-0546; JE-2013-0582	NAME OF OFFICER	IIILL	ADDRE35

UNION ELECTRIC COMPANY **ELECTRIC SERVICE**

CANCELLING SCHEDULE NO. 1

_____ SHEET NO. <u>15</u> P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. <u>1</u> 3rd Revised

2nd Revised SHEET NO. 15

APPLYING TO

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

*C. Installation Information/Hardware and Installation Compliance

Person or Company Instal	lling:			
Contractor's License No.	(if applicable):			
Approximate Installation	Date:			
Mailing Address:				
City:		State:	Zip Code:	
Daytime Phone:	Fax:	E-Mail:		
Person or Agency Who W	/ill Inspect/Certify Instal	lation:		

The Customer-Generator's proposed System hardware complies with all applicable National Electrical Safety Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE) and Underwriters Laboratories (UL) requirements for electrical equipment and their installation. As applicable to System type, these requirements include, but are not limited to, UL 1741, IEEE 929-2000 or IEEE 1547. The proposed installation also complies with all applicable local electrical codes. The proposed System has a lockable, visible disconnect device, accessible at all times to Company personnel located within the vicinity of the Customer-Generator's meter. The System is only required to include one lockable, visible disconnect device, accessible to Company. If the interconnection equipment is equipped with a visible, lockable, and accessible disconnect, no redundant device is needed to meet this requirement.

The Customer-Generator's proposed System has functioning controls to prevent voltage flicker, DC injection, overvoltage, undervoltage, overfrequency, underfrequency, and overcurrent, and to provide for System synchronization to Company's electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when Company's electric system is not energized or operating normally. If the proposed System is designed to provide uninterruptible power to critical loads, either through energy storage or back-up generation, the proposed System includes a parallel blocking scheme for this backup source that prevents any backflow of power to Company's electrical system when the electrical system is not energized or not operating normally.

Signed (Installer): _____ Date: _____

Name (Print):

D. Additional Terms and Conditions

In addition to abiding by Company's other applicable rules and regulations, the Customer-Generator understands and agrees to the following specific terms and conditions:

1) Operation/Disconnection

If it appears to Company, at any time, in the reasonable exercise of its judgment, that operation of the Customer-Generator's System is adversely affecting safety, power quality or reliability of Company's electrical system, Company may immediately disconnect and lock-out the Customer-Generator's System from Company's electrical system. The Customer-Generator shall permit Company's employees and inspectors A reasonable access to inspect, test, and examine the Customer-Generator's System.

November 29, 2012 Messouri Fublic Messouri Fublic		FILED Missouri Public Service Commission
Service Commission		ET-2011-0102; YE-2011-0217
ET-2013-0197, YE-2013-0208 DATE OF ISSUE October 28, 2010	DATE EFFECTIVE	November 27, 2010
ISSUED BY <u>Warner L. Baxter</u>	President & CEO	St. Louis, Missouri
NAME OF OFFICER	TITLE	ADDRESS

UNION	ELECTRIC	COMPANY
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ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDUL E NO	2nd Revised	SHEET NO.	15
CANCELLING SCHEDULE NO. 1	1st Revised	_SHEET NO	15

APPLYING TO

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

* The Customer-Generator's proposed System hardware complies with all applicable National Electrical Safety Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE) and Underwriters Laboratories (UL) requirements for electrical equipment and their installation. As applicable to System type, these requirements include, but are not limited to, UL 1741, IEEE 929-2000 or IEEE 1547. The proposed installation also complies with all applicable local electrical codes. The proposed System has a lockable, visible disconnect device, accessible at all times to Company personnel located within the vicinity of the Customer-Generator's meter. The System is only required to include one lockable, visible disconnect device, accessible to Company. If the interconnection equipment is equipped with a visible, lockable, and accessible disconnect, no redundant device is needed to meet this requirement.

The Customer-Generator's proposed System has functioning controls to prevent voltage flicker, DC injection, overvoltage, undervoltage, overfrequency, underfrequency, and overcurrent, and to provide for System synchronization to Company's electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when Company's electric system is not energized or operating normally. If the proposed System is designed to provide uninterruptible power to critical loads, either through energy storage or back-up generation, the proposed System includes a parallel blocking scheme for this backup source that prevents any backflow of power to Company's electrical system when the electrical system is not energized or not operating normally.

Signed (Installer): _____ Date: _____

Name (Print):

D. Additional Terms and Conditions

In addition to abiding by Company's other applicable rules and regulations, the Customer-Generator understands and agrees to the following specific terms and conditions:

1) Operation/Disconnection

If it appears to Company, at any time, in the reasonable exercise of its judgment, that operation of the Customer-Generator's System is adversely affecting safety, power quality or reliability of Company's electrical system, Company may immediately disconnect and lock-out the Customer-Generator's System from Company's electrical system. The Customer-Generator shall permit Company's employees and inspectors reasonable access to inspect, test, and examine the Customer-Generator's System.

2) Liability

Liability insurance is not required for Customer-Generators when the generator is 10 kW or less. For generators greater than 10 kW, the Customer-Generator agrees to carry no less than \$100,000 of liability insurance that provides for coverage of all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Customer-Generator's System. Insurance may be in the form of an existing policy or an endorsement on an existing policy.

3) Interconnection Costs

The Customer-Generator shall, at the Customer-Generator's cost and expense, install, operate, maintain, repair, and inspect, and shall be fully responsible for the Customer-Generator's System. The Customer-Generator further agrees to pay or reimburse to Company all of Company's Interconnection Costs. Interconnection Costs

CANCELLED November 27, 2010 Missouri Public Service Commission		Change				Miss	FILED ouri Public - Commission
ET-2011-0102; YE-2011-						January 1, 20	
	P.S.C. Mo. DATE O	F ISSUE	December	21, 2007	DATE EFFECTIVE	January 20	, 2008
	ISSUED BY	T. R.	Voss	President	& CEO	St. Louis,	Missouri
		NAME	OF OFFICER	TITLE FT-2008-		ADE	DRESS

UNION ELECTRIC COMPANY	ELECTRIC SERVICE			
P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO		1st Revised	SHEET NO.	15
CANCELLING SCHEDULE NO	·	Original	SHEET NO.	15
APPLYING TO MI	SSOURI SERVICE AR	EA		

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

* The Customer-Generator's proposed System hardware complies with all applicable National Electrical Safety Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE) and Underwriters Laboratories (UL) requirements for electrical equipment and their installation. As applicable to System type, these requirements include, but are not limited to, UL 1741, IEEE 929-2000 or IEEE 1547. The proposed installation complies with all applicable local electrical codes and all reasonable safety requirements of Company. The proposed System has a lockable, visible disconnect device, accessible at all times to Company personnel. The System is only required to include one lockable, visible disconnect device, accessible to Company. If the interconnection equipment is equipped with a visible, lockable, and accessible disconnect, no redundant device is needed to meet this requirement.

The Customer-Generator's proposed System has functioning controls to prevent voltage flicker, DC injection, overvoltage, undervoltage, overfrequency, underfrequency, and overcurrent, and to provide for System synchronization to Company's electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when Company's electric system is not energized or operating normally. If the proposed System is designed to provide uninterruptible power to critical loads, either through energy storage or back-up generation, the proposed System includes a parallel blocking scheme for this backup source that prevents any backflow of power to Company's electrical system when the electrical system is not energized or not operating normally.

Signed (Installer): _____ Date: _____ Name (Print): _____

D. Additional Terms and Conditions

In addition to abiding by Company's other applicable rules and regulations, the Customer-Generator understands and agrees to the following specific terms and conditions:

1) Operation/Disconnection

If it appears to Company, at any time, in the reasonable exercise of its judgment, that operation of the Customer-Generator's System is adversely affecting safety, power quality or reliability of Company's electrical system, Company may immediately disconnect and lock-out the Customer-Generator's System from Company's electrical system. The Customer-Generator shall permit Company's employees and inspectors reasonable access to inspect, test, and examine the Customer-Generator's System.

2) Liability

UNION ELECTRIC COMPANY

The Customer-Generator agrees to carry no less than \$100,000 of liability insurance that provides for coverage of all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Customer-Generator's System. Insurance may be in the form of an existing policy or an endorsement on an existing policy.

3) Interconnection Costs

The Customer-Generator shall, at the Customer-Generator's cost and expense, install, operate, maintain, repair, and inspect, and shall be fully responsible for the Customer-Generator's System. The Customer-Generator further agrees to pay or reimburse to Company all of Company's Interconnection Costs. Interconnection Costs are the reasonable costs incurred by Company for: (1) additional tests or analyses of the effects of the operation of the Customer-Generator's System on Company's local distribution system, (2) additional metering, and (3) any necessary controls. These Interconnection Costs must be related to the installation of the

* Indicates Change

Filed Pursuant to the Order of the Mo. P.S.C. in Case No. EO-2006-0497

CANCELLED P.S.C. Mo.	DATE OF ISSUE July 30	, 2007 DATE EFFECTIVE	August 29, 2007
January 1, 2008 ISSUED BY	T. R. Voss	President & CEO	St. Louis, Missouri
Missouri Public	NAME OF OFFICER	TITLE	ADDRESS FILED
Service Commission			EO-2006-0497 Missouri Public Service Commision

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1

ORIGINAL

Sheet no. 15

SHEET NO.

Service Commision

APPLYING TO

CANCELLING SCHEDULE NO. MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

The Customer-Generator's proposed System hardware complies with all applicable National Electrical Safety Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE) and Underwriters Laboratories (UL) requirements for electrical equipment and their installation. As applicable to System type, these requirements include, but are not limited to, UL 1741 and IEEE 929-2000. The proposed installation complies with all applicable local electrical codes and all reasonable safety requirements of Company. The proposed System has a lockable, visible disconnect device, accessible at all times to Company personnel. The System is only required to include one lockable, visible disconnect device, accessible to Company. If the interconnection equipment is equipped with a visible, lockable, and accessible disconnect, no redundant device is needed to meet this requirement.

The Customer-Generator's proposed System has functioning controls to prevent voltage flicker, DC injection, overvoltage, undervoltage, overfrequency, underfrequency, and overcurrent, and to provide for System synchronization to Company's electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when Company's electric system is not energized or operating normally. If the proposed System is designed to provide uninterruptible power to critical loads, either through energy storage or back-up generation, the proposed System includes a parallel blocking scheme for this backup source that prevents any backflow of power to Company's electrical system when the electrical system is not energized or not operating normally.

Signed (Installer): _____ Date: _____ Name (Print):

D. Additional Terms and Conditions

In addition to abiding by Company's other applicable rules and regulations, the Customer-Generator understands and agrees to the following specific terms and conditions:

1) Operation/Disconnection

If it appears to Company, at any time, in the reasonable exercise of its judgment, that operation of the Customer-Generator's System is adversely affecting safety, power quality or reliability of Company's electrical system, Company may immediately disconnect and lock-out the Customer-Generator's System from Company's electrical system. The Customer-Generator shall permit Company's employees and inspectors reasonable access to inspect, test, and examine the Customer-Generator's System.

2) Liability

The Customer-Generator agrees to carry no less than \$100,000 of liability insurance that provides for coverage of all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Customer-Generator's System. Insurance may be in the form of an existing policy or an endorsement on an existing policy.

3) Interconnection Costs

The Customer-Generator shall, at the Customer-Generator's cost and expense, install, operate, maintain, repair, and inspect, and shall be fully responsible for the Customer-Generator's System. The Customer-Generator further agrees to pay or reimburse to Company all of Company's Interconnection Costs. Interconnection Costs are the reasonable costs incurred by Company for: (1) additional tests or analyses of the effects of the operation of the Customer-Generator's System on Company's local distribution system, (2) additional metering, and (3) any necessary controls. These Interconnection Costs must be related to the installation of the

	P.S.C. Mo. DAT		August	14, 2003	DATE EFFECTIVE	August 28, 20 September 13	
CANCELLED	ISSUED BY	с. W.	Mueller	Chairman	& CEO	St. Louis, M	lissouri
August 29, 2007 Missouri Public		NAME (DF OFFICER	TITLI	E	ADDRE	FILED
Service Commission							Missouri Public

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1 3rd Revised SHEET NO. 16

SHEET NO. 16

2nd Revised CANCELLING SCHEDULE NO. 1

APPLYING TO

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

D. Additional Terms and Conditions

In addition to abiding by Company's other applicable rules and regulations, the Customer-Generator understands and agrees to the following specific terms and conditions:

1) Operation/Disconnection

If it appears to Company, at any time, in the reasonable exercise of its judgment, that operation of the Customer-Generator's System is adversely affecting safety, power quality or reliability of Company's electrical system, Company may immediately disconnect and lock-out the Customer-Generator's System from Company's electrical system. The Customer-Generator shall permit Company's employees and inspectors reasonable access to inspect, test, and examine the Customer-Generator's System.

*2) Liability

Liability insurance is not required for Customer-Generators of ten kilowatts (10 kW) or less. For Customer-Generators greater than ten kilowatts (10 kW), the Customer-Generator agrees to carry no less than one hundred thousand dollars (\$100,000) of liability insurance that provides for coverage of all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Customer-Generator's System. Insurance may be in the form of an existing policy or an endorsement on an existing policy.

Absent clear and convincing evidence of fault on the part of Company, Company cannot be held liable for any action or cause of action relating to any damages to property or person caused by the generation unit of a Customer-Generator or the interconnection thereof pursuant to section 386.890.11, RSMo Supp. 2008. Customer-Generators, including those whose systems are ten kilowatts (10 kW) or less, may have legal liabilities not covered under their existing insurance policy in the event the Customer-Generator's negligence or other wrongful conduct causes personal injury (including death), damage to property, or other actions and claims.

*3) Metering & Distribution Costs

A Customer-Generator's facility shall be equipped with sufficient metering equipment that can measure the net amount of electrical energy produced or consumed by the Customer-Generator. If the Customer-Generator's existing meter equipment does not meet these requirements or if it is necessary for Company to install additional distribution equipment to accommodate the Customer-Generator's facility, the Customer-Generator shall reimburse Company for the costs to purchase and install the necessary additional equipment. At the request of the Customer-Generator, such costs may be initially paid for by Company, and any amount up to the total costs and a reasonable interest charge may be recovered from the Customer-Generator over the course of up to twelve (12) billing cycles. Any subsequent meter testing, maintenance, or meter equipment change necessitated by the Customer-Generator shall be paid for by the Customer-Generator.

*4) Ownership of Renewable Energy Credits or Renewable Energy Certificates (REC's)

RECs created through the generation of electricity by the Customer-Owner are owned by the Customer-Generator until explicitly transferred to another entity. Nothing in this contract gives Company any preferential entitlement to the RECs generated by the Customer-Generator's system.

* Indicat	es Change.		FILED Missouri Public Service Commission YE-2013-0208
CANCELLED DATE OF ISSU	October 29, 2012	DATE EFFECTIVE	November 29, 2012
June 30, 2013 Missouri Public ISSUED BY Service Commission ET-2013-0546; JE-2013-0582	Warner L. Baxter NAME OF OFFICER	President & CEO TITLE	St. Louis, Missouri ADDRESS

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. <u>1</u>

CANCELLING SCHEDULE NO. 1

lst Revised

2nd Revised

APPLYING TO

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS – (CONTINUED)

2) Liability

Liability insurance is not required for Customer-Generators when the generator is 10 kW or less. For generators greater than 10 kW, the Customer-Generator agrees to carry no less than \$100,000 of liability insurance that provides for coverage of all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Customer-Generator's System. Insurance may be in the form of an existing policy or an endorsement on an existing policy.

* Absent clear and convincing evidence of fault on the part of Company, Company cannot be held liable for any action or cause of action relating to any damages to property or person caused by the generation unit of a Customer-Generator or the interconnection thereof pursuant to section 386.890.11, RSMo Supp. 2008. A Customer-Generator may have legal liabilities not covered under their existing insurance policy in the event the Customer Generator's negligence or other wrongful conduct causes personal injury (including death), damage to property, or other actions and claims.

3) Interconnection Costs

The Customer-Generator shall, at the Customer-Generator's cost and expense, install, operate, maintain, repair, and inspect, and shall be fully responsible for the Customer-Generator's System. The Customer-Generator further agrees to pay or reimburse to Company all of Company's Interconnection Costs. Interconnection Costs are the reasonable costs incurred by Company for: (1) additional tests or analyses of the effects of the operation of the Customer-Generator's System on Company's local distribution system, (2) additional metering, and (3) any necessary controls. These Interconnection Costs must be related to the installation of the physical facilities necessary to permit interconnected operation of the Customer-Generator's System and shall only include those costs, or corresponding costs, which would not have been incurred by Company in providing service to the Customer-Generator solely as a consumer of electric energy from Company pursuant to Company's standard cost of service policies in effect at the time the Customer-Generator's System is first interconnected with Company's system. Upon request, Company shall provide the Customer-Generator with a not-to-exceed costs statement for interconnection with Company based upon the plans and specifications provided by the Customer-Generator to Company.

4) Energy Pricing and Billing

Each billing period, Company shall measure the net electrical energy produced or consumed and bill the Customer-Generator as follows:

- a) If the electricity supplied by Company exceeds the electricity supplied by the Customer-Generator to Company, Company's bill will reflect the net electricity supplied by Company and the Customer-Generator's current service classification.
- b) If the electricity supplied by Company is less than the electricity supplied by the Customer-Generator to Company, Company's bill will include a credit for the net electricity received by Company in accordance with the Non-Time-Differentiated Energy Rates contained in Company's Schedule 1 Electric Power Purchases, Section A.II.1.

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Missouri Public		Missouri Public Service Commission
Service Commission		ET-2011-0102; YE-2011-0217
ET-2013-0197 of Escentiation of the second s	DATE EFFECTIVE	November 27, 2010
ISSUED BY <u>Warner L. Baxter</u>	President & CEO	St. Louis, Missouri
NAME OF OFFICER	TITLE	ADDRESS

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO.	1	1st Revised
CANCELLING SCHEDULE NO.	1	Original

APPLYING TO

NO. 1 Original MISSOURI SERVICE AREA

SHEET NO. 16

16

SHEET NO.

<u>INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH</u> <u>CAPACITY OF 100 kW OR LESS – (CONTINUED)</u>

are the reasonable costs incurred by Company for: (1) additional tests or analyses of the effects of the operation of the Customer-Generator's System on Company's local distribution system, (2) additional metering, and (3) any necessary controls. These Interconnection Costs must be related to the installation of the physical facilities necessary to permit interconnected operation of the Customer-Generator's System with Company's system and shall only include those costs, or corresponding costs, which would not have been incurred by Company in providing service to the Customer-Generator solely as a consumer of electric energy from Company pursuant to Company's standard cost of service policies in effect at the time the Customer-Generator's System is first interconnected with Company's system. Upon request, Company shall provide the Customer-Generator with a not-to-exceed costs statement for interconnection with Company based upon the plans and specifications provided by the Customer-Generator to Company.

4) Energy Pricing and Billing

Each billing period, Company shall measure the net electrical energy produced or consumed and bill the Customer-Generator as follows:

- a) If the electricity supplied by Company exceeds the electricity supplied by the Customer-Generator to Company, Company's bill will reflect the net electricity supplied by Company and the Customer-Generator's current service classification.
- b) If the electricity supplied by Company is less than the electricity supplied by the Customer-Generator to Company, Company's bill will include a credit for the net electricity received by Company in accordance with the Non-Time-Differentiated Energy Rates contained in Company's Schedule 1 – Electric Power Purchases, Section A.II.1.

5) Terms and Termination Rights

This Agreement becomes effective when signed by both the Customer-Generator and Company, and shall continue in effect until terminated. After fulfillment of any applicable initial tariff or rate schedule term, the Customer-Generator may terminate this Agreement at any time by giving Company at least thirty (30) days prior written notice. In such event, the Customer-Generator shall, no later than the date of termination of Agreement, completely disconnect the Customer-Generator's System from parallel operation with Company's system. Either party may terminate this Agreement by giving the other party at least thirty (30) days prior written notice that the other party is in default of any of the terms and conditions of this Agreement, so long as the notice specifies the basis for termination, and there is an opportunity to cure the default. This Agreement may also be terminated at any time by mutual agreement of the Customer-Generator and Company. This agreement may also be terminated, by approval of the Commission, if there is a change in statute that is determined to be applicable to this contract and necessitates its termination.

6) Transfer of Ownership

If operational control of the Customer-Generator's System transfers to any other party than the Customer-Generator, a new Application/Agreement must be completed by the person or persons taking over operational control of the existing Customer-Generator System. Company shall be notified no less than thirty (30) days before the Customer-Generator anticipates transfer of operational control of the Customer-Generator's System. The person or persons taking over operational control of Customer-Generator's System must file a new Application/Agreement, and must receive authorization from Company, before the existing Customer-Generator System can remain interconnected with Company's electrical system. The new Application/Agreement will only

* Indicates Change				FILED Missouri Public
17				Service Commission January 1, 2008
S.C. Mo. DATE OF ISSUE	December 21,	2007	DATE EFFECTIVE	<u>January 20, 2008</u>
	***	President TITLE FT-2008-(St. Louis, Missouri ADDRESS
5	17 .C. Mo. DATE OF ISSUE	17 .C. Mo. DATE OF ISSUE December 21,	17 .C. Mo. DATE OF ISSUE December 21, 2007 UED BY T. R. Voss President NAME OF OFFICER TITLE	I7 .C. Mo. DATE OF ISSUE <u>December 21, 2007</u> DATE EFFECTIVE UED BY <u>T. R. Voss</u> <u>President & CEO</u> NAME OF OFFICER TITLE

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1

CANCELLING SCHEDULE NO.

ORIGINAL

SHEET NO. 16

APPLYING TO

MISSOURI SERVICE AREA

SHEET NO.

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS – (CONTINUED)

physical facilities necessary to permit interconnected operation of the Customer-Generator's System with Company's system and shall only include those costs, or corresponding costs, which would not have been incurred by Company in providing service to the Customer-Generator solely as a consumer of electric energy from Company pursuant to Company's standard cost of service policies in effect at the time the Customer-Generator's System is first interconnected with Company's system. Upon request, Company shall provide the Customer-Generator with a not-to-exceed costs statement for interconnection with Company based upon the plans and specifications provided by the Customer-Generator to Company.

4) Energy Pricing and Billing

Section 386.887 RSMo Supp. 2002 sets forth the valuation and billing of electric energy provided by Company to the Customer-Generator and to Company from Customer-Generator. The value of the electric energy delivered to the Customer-Generator shall be billed in accordance with Company's applicable Schedule 5 - Schedule of Rates for Electric Service, Service Classification with the application of the Time-of-Day billing provisions. The value of the electric energy delivered by the Customer-Generator to Company shall be credited in accordance with Company's Schedule 1 - Electric Power Purchases, Section A.II.2.

5) Terms and Termination Rights

This Agreement becomes effective when signed by both the Customer-Generator and Company, and shall continue in effect until terminated. After fulfillment of any applicable initial tariff or rate schedule term, the Customer-Generator may terminate this Agreement at any time by giving Company at least thirty (30) days prior written notice. In such event, the Customer-Generator shall, no later than the date of termination of Agreement, completely disconnect the Customer-Generator's System from parallel operation with Company's system. Either party may terminate this Agreement by giving the other party at least thirty (30) days prior written notice that the other party is in default of any of the terms and conditions of this Agreement, so long as the notice specifies the basis for termination, and there is an opportunity to cure the default. This Agreement may also be terminated at any time by mutual agreement of the Customer-Generator and Company. This agreement may also be terminated, by approval of the Commission, if there is a change in statute that is determined to be applicable to this contract and necessitates its termination.

6) Transfer of Ownership

If operational control of the Customer-Generator's System transfers to any other party than the Customer-Generator, a new Application/Agreement must be completed by the person or persons taking over operational control of the existing Customer-Generator System. Company shall be notified no less than thirty (30) days before the Customer-Generator anticipates transfer of operational control of the Customer-Generator's System. The person or persons taking over operational control of Customer-Generator's System must file a new Application/Agreement, and must receive authorization from Company, before the existing Customer-Generator System can remain interconnected with Company's electrical system. The new Application/Agreement will only need to be completed to the extent necessary to affirm that the new person or persons having operational control of the existing Customer-Generator System completely understand the provisions of this Application/Agreement and agrees to them. If no changes are being made to the Customer-Generator's System, completing sections A, D and F of this Application/Agreement will satisfy this requirement. If no changes are being proposed to the new Application/Agreement and shall approve such, within fifteen (15) days if the new Customer-Generator has satisfactorily completed the Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. Company will then complete section G and forward a copy of the completed

CANCELLED January 1, 2008 ISS Missouri Public Service Commission

			August 20, 2003
P.S.C. Mo. DATE OF ISSUE	August 14, 2003	DATE EFFECTIVE	- September 13, 2003-
ISSUED BY C. W.	Mueller Chai	rman & CEO	St. Louis, Missouri
NAME	DF OFFICER	ΠΤLE	ADDRESS

APPLYING TO

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO.	1	3rd Revised	SHEET NO.	17
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CANCELLING SCHEDULE NO. 1

MISSOURI SERVICE AREA

2nd Revised

SHEET NO.

17

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS – (CONTINUED)

*5) Energy Pricing and Billing

The net electric energy delivered to the Customer-Generator shall be billed in accordance with the Company's Applicable Rate Schedule 5, Schedule of Rates for Electricy. The value of the net electric energy delivered by the Customer-Generator to Company shall be credited in accordance with the net metering rate Schedule 1, Electric Power Purchases.

Net electrical energy measurement shall be calculated in the following manner:

- (a) For a Customer-Generator, a retail electric supplier shall measure the net electrical energy produced or consumed during the billing period in accordance with normal metering practices for customers in the same rate class, either by employing a single, bidirectional meter that measures the amount of electrical energy produced and consumed, or by employing multiple meters that separately measure the Customer-Generator's consumption and production of electricity;
- (b) If the electricity supplied by the supplier exceeds the electricity generated by the Customer-Generator during a billing period, the Customer-Generator shall be billed for the net electricity supplied by the supplier in accordance with normal practices for customers in the same rate class;
- (c) If the electricity generated by the Customer-Generator exceeds the electricity supplied by the supplier during a billing period, the Customer-Generator shall be billed for the appropriate minimum bill as specified by Customer-Generators selected rate, for that billing period and shall be credited an amount for the excess kilowatt-hours generated during the billing period at the net metering rate identified in Company's tariff filed at the Public Service Commission, with this credit applied to the following billing period; and
- (d) Any credits granted by this subsection shall expire without any compensation at the earlier of either twelve (12) months after their issuance, or when the Customer-Generator disconnects service or terminates the net metering relationship with the supplier.

6) Terms and Termination Rights

This Agreement becomes effective when signed by both the Customer-Generator and Company, and shall continue in effect until terminated. After fulfillment of any applicable initial tariff or rate schedule term, the Customer-Generator may terminate this Agreement at any time by giving Company at least thirty (30) days prior written notice. In such event, the Customer-Generator shall, no later than the date of termination of Agreement, completely disconnect the Customer-Generator's System from parallel operation with Company's system. Either party may terminate this Agreement by giving the other party at least thirty (30) days prior written notice that the other party is in default of any of the terms and conditions of this Agreement, so long as the notice specifies the basis for termination, and there is an opportunity to cure the default. This Agreement may also be terminated at any time by mutual agreement of the Customer-Generator and Company. This agreement may also be terminated, by approval of the Commission, if there is a change in statute that is determined to be applicable to this contract and necessitates its termination.

*7) Transfer of Ownership

If operational control of the Customer-Generator's System transfers to any other party than the Customer-Generator, a new Application/Agreement must be completed by the person or persons taking over operational control of the existing Customer-Generator System. Company shall be notified no less than thirty (30) days before the Customer-Generator anticipates transfer of operational control of the Customer-Generator's System. The person or persons taking over operational control of Customer-Generator's System must file a new Application/Agreement, and must receive authorization from Company, before the existing Customer-Generator System can remain interconnected with Company's electrical system. The new Application/Agreement will only need to be completed to the extent necessary to affirm that the new person or persons having operational control of the existing Customer-Generator System completely understand the provisions of this Application/Agreement and agrees to them. If no changes are being made to the Customer-Generator's System, Missouri Public

*Indicates Change.

Service Commission YE-2013-0208

CANCELLED DATE OF ISSUE	October 29, 2012	DATE EFFECTIVE	November 29, 2012
June 30, 2013 Missouri Public ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
Service Commission FT-2013-0546: JE-2013-0582	NAME OF OFFICER	TITLE	ADDRESS

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. <u>1</u>

2nd Revised 1st Revised

SHEET NO. 17

17

SHEET NO.

APPLYING TO

MISSOURI SERVICE AREA

<u>INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH</u> <u>CAPACITY OF 100 kW OR LESS – (CONTINUED)</u>

*5) Terms and Termination Rights

CANCELLING SCHEDULE NO. 1

This Agreement becomes effective when signed by both the Customer-Generator and Company, and shall continue in effect until terminated. After fulfillment of any applicable initial tariff or rate schedule term, the Customer-Generator may terminate this Agreement at any time by giving Company at least thirty (30) days prior written notice. In such event, the Customer-Generator shall, no later than the date of termination of Agreement, completely disconnect the Customer-Generator's System from parallel operation with Company's system. Either party may terminate this Agreement by giving the other party at least thirty (30) days prior written notice that the other party is in default of any of the terms and conditions of this Agreement, so long as the notice specifies the basis for termination, and there is an opportunity to cure the default. This Agreement may also be terminated at any time by mutual agreement of the Customer-Generator and Company. This agreement may also be terminated, by approval of the Commission, if there is a change in statute that is determined to be applicable to this contract and necessitates its termination.

*6) Transfer of Ownership

If operational control of the Customer-Generator's System transfers to any other party than the Customer-Generator, a new Application/Agreement must be completed by the person or persons taking over operational control of the existing Customer-Generator System. Company shall be notified no less than thirty (30) days before the Customer-Generator anticipates transfer of operational control of the Customer-Generator's System. The person or persons taking over operational control of Customer-Generator's System must file a new Application/Agreement, and must receive authorization from Company, before the existing Customer-Generator System can remain interconnected with Company's electrical system. The new Application/Agreement will only need to be completed to the extent necessary to affirm that the new person or persons having operational control of the existing Customer-Generator System completely understand the provisions of this Application/Agreement and agrees to them. If no changes are being made to the Customer-Generator's System, completing sections A, D and F of this Application/Agreement will satisfy this requirement. If no changes are being proposed to the Customer-Generator System, Company will assess no charges or fees for this transfer. Company will review the new Application/Agreement and shall approve such if the new Customer-Generator has satisfactorily completed the Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. Company will then complete section G and forward a copy of the completed Application/Agreement back to the new Customer-Generator, thereby notifying the new Customer-Generator that the new Customer-Generator is authorized to operate the existing Customer-Generator System in parallel with Company's electrical system. If any changes are planned to be made to the existing Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics, then the Customer-Generator shall submit to Company a new Application/Agreement for the entire Customer-Generator System and all portions of the Application/Agreement must be completed.

7) Dispute Resolution

If any disagreements between the Customer-Generator and Company arise that cannot be resolved through normal negotiations between them, the disagreements may be brought to the Missouri Public Service Commission by either party, through an informal or formal complaint. Procedures for filing and processing these complaints are described in 4 CSR 240-2.070. The complaint procedures described in 4 CSR 240-2.070 apply only to retail electric power suppliers to the extent that they are regulated by the Missouri Public Service Commission.

CANCELED November 29, 2012 MssoundimatricReissue.		FILED Missouri Public Service Commission
Service Commission		ET-2011-0102; YE-2011-0217
ET-2013-0197 YE-2013-0208 October 28, 2010	DATE EFFECTIVE	November 27, 2010
ISSUED BY <u>Warner L. Baxter</u> NAME OF OFFICER	President & CEO TITLE	St. Louis, Missouri ADDRESS

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO	lst Revised	SHEET NO.	17
CANCELLING SCHEDULE NO	Original	SHEET NO.	17

APPLYING TO

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH **CAPACITY OF 100 kW OR LESS – (CONTINUED)**

* need to be completed to the extent necessary to affirm that the new person or persons having operational control of the existing Customer-Generator System completely understand the provisions of this Application/Agreement and agrees to them. If no changes are being made to the Customer-Generator's System, completing sections A, D and F of this Application/Agreement will satisfy this requirement. If no changes are being proposed to the Customer-Generator System, Company will assess no charges or fees for this transfer. Company will review the new Application/Agreement and shall approve such if the new Customer-Generator has satisfactorily completed the Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. Company will then complete section G and forward a copy of the completed Application/Agreement back to the new Customer-Generator, thereby notifying the new Customer-Generator that the new Customer-Generator is authorized to operate the existing Customer-Generator System in parallel with Company's electrical system. If any changes are planned to be made to the existing Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics, then the Customer-Generator shall submit to Company a new Application/Agreement for the entire Customer-Generator System and all portions of the Application/Agreement must be completed.

7) Dispute Resolution

If any disagreements between the Customer-Generator and Company arise that cannot be resolved through normal negotiations between them, the disagreements may be brought to the Missouri Public Service Commission by either party, through an informal or formal complaint. Procedures for filing and processing these complaints are described in 4 CSR 240-2.070. The complaint procedures described in 4 CSR 240-2.070 apply only to retail electric power suppliers to the extent that they are regulated by the Missouri Public Service Commission.

8) Testing Requirement

E

IEEE 1547 requires periodic testing of all interconnection related protective functions. The Customer-Generator must, at least once every year, conduct a test to confirm that the Customer-Generator's net metering unit automatically ceases to energize the output (interconnection equipment output voltage goes to zero) within two (2) seconds of being disconnected from Company's electrical system. Disconnecting the net metering unit from Company's electrical system at the visible disconnect switch and measuring the time required for the unit to cease to energize the output shall satisfy this test. The Customer-Generator shall maintain a record of the results of these tests and, upon request by Company, shall provide a copy of the test results to Company. If the Customer-Generator is unable to provide a copy of the test results upon request, Company shall notify the Customer-Generator by mail that Customer-Generator has thirty (30) days from the date the Customer-Generator receives the request to provide to Company, the results of a test. If the Customer-Generator's equipment ever fails this test, the Customer-Generator shall immediately disconnect the Customer-Generator's System from Company's system. If the Customer-Generator does not provide results of a test to Company within thirty (30) days of receiving a request from Company or the results of the test provided to Company show that the Customer-Generator's net metering unit is not functioning correctly, Company may immediately disconnect the Customer-Generator's System from Company's system. The Customer-Generator's System shall not be reconnected to Company's electrical system by the Customer- Generator until the Customer-Generator's System is repaired and operating in a normal and safe manner.

I have read, understand, and accept the provisions of Section D, subsections 1 through 8 of this Application/Agreement.

CANCELLED November 27, 2010 Missouri Public Service Commission	2010 *Indicates Change			Date: FILED Missouri Public Service Commissio			
T-2011-0102; YE-2011-				<u></u>		January 1, 2008	
	P.S.C. Mo. DATI		December	21, 2007	DATE EFFECTIVE	January 20, 2008	
	ISSUED BY	T.R. NAME	Voss OF OFFICER	President TITLE FT-2008-		St. Louis, Missouri ADDRESS	

ELECTRIC SERVICE

P. S. C. MO., ILL, C. C., IA. ST. C. C. SCHEDULE NO. 1

ORIGINAL

SHEET NO. 17

Missouri Public Service Commision

APPLYING TO

Service Commission

CANCELLING SCHEDULE NO._________ MISSOURI SERVICE AREA

SHEET NO.

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS – (CONTINUED)

Application/Agreement back to the new Customer-Generator, thereby notifying the new Customer-Generator that the new Customer-Generator is authorized to operate the existing Customer-Generator System in parallel with Company's electrical system. If any changes are planned to be made to the existing Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics, then the Customer-Generator shall submit to Company a new Application/Agreement for the entire Customer-Generator System and all portions of the Application/Agreement must be completed.

7) Dispute Resolution

If any disagreements between the Customer-Generator and Company arise that cannot be resolved through normal negotiations between them, the disagreements may be brought to the Missouri Public Service Commission by either party, through an informal or formal complaint. Procedures for filing and processing these complaints are described in 4 CSR 240-2.070. The complaint procedures described in 4 CSR 240-2.070 apply only to retail electric power suppliers to the extent that they are regulated by the Missouri Public Service Commission.

8) Testing Requirement

The Customer-Generator must, at least once every year, conduct a test to confirm that the Customer-Generator's net metering unit automatically ceases to energize the output (interconnection equipment output voltage goes to zero) within two (2) seconds of being disconnected from Company's electrical system. Disconnecting the net metering unit from Company's electrical system at the visible disconnect switch and measuring the time required for the unit to cease to energize the output shall satisfy this test. The Customer-Generator shall maintain a record of the results of these tests and, upon request by Company, shall provide a copy of the test results to Company. If the Customer-Generator is unable to provide a copy of the test results upon request, Company shall notify the Customer-Generator by mail that Customer-Generator has thirty (30) days from the date the Customer-Generator receives the request to provide to Company, the results of a test. If the Customer-Generator's equipment ever fails this test, the Customer-Generator shall immediately disconnect the Customer-Generator's System from Company's system. If the Customer-Generator does not provide results of a test to Company within thirty (30) days of receiving a request from Company or the results of the test provided to Company show that the Customer-Generator's net metering unit is not functioning correctly, Company may immediately disconnect the Customer-Generator's System from Company's system. The Customer-Generator's System shall not be reconnected to Company's electrical system by the customer- generator until the Customer-Generator's System is repaired and operating in a normal and safe manner.

I have read, understand, and accept the provisions of Section D, subsections 1 through 8 of this Application/Agreement.

		Date:		
			August 28, 2003	
August 1	4, 2003	DATE EFFECTIVE		
			St. Louis, Missouri ADDRESS FILED	
	August 1 leller DFFICER		leller Chairman & CEO	

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1	3rd Revised	SHEET NO.	18

CANCELLING SCHEDULE NO. 1

2nd Revised

SHEET NO. 18

APPLYING TO

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

completing sections A, D and F of this Application/Agreement will satisfy this requirement. If no changes are being proposed to the Customer-Generator System, Company will assess no charges or fees for this transfer. Company will review the new Application/Agreement and shall approve such, within fifteen (15) days, if the new Customer-Generator has satisfactorily completed the Application/Agreement, and no changes are being proposed to the existing Customer-Generator System. Company will then complete section G and forward a copy of the completed Application/Agreement back to the new Customer-Generator, thereby notifying the new Customer-Generator that the new Customer-Generator is authorized to operate the existing Customer-Generator System in parallel with Company's electrical system. If any changes are planned to be made to the existing Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics, then the Customer-Generator shall submit to Company a new Application/Agreement for the entire Customer-Generator System and all portions of the Application/Agreement must be completed.

8) Dispute Resolution

If any disagreements between the Customer-Generator and Company arise that cannot be resolved through normal negotiations between them, the disagreements may be brought to the Missouri Public Service Commission by either party, through an informal or formal complaint. Procedures for filing and processing these complaints are described in 4 CSR 240-2.070. The complaint procedures described in 4 CSR 240-2.070 apply only to retail electric power suppliers to the extent that they are regulated by the Missouri Public Service Commission.

9) Testing Requirement

IEEE 1547 requires periodic testing of all interconnection related protective functions. The Customer-Generator must, at least once every year, conduct a test to confirm that the Customer-Generator's net metering unit automatically ceases to energize the output (interconnection equipment output voltage goes to zero) within two (2) seconds of being disconnected from Company's electrical system. Disconnecting the net metering unit from Company's electrical system at the visible disconnect switch and measuring the time required for the unit to cease to energize the output shall satisfy this test. The Customer-Generator shall maintain a record of the results of these tests and, upon request by Company, shall provide a copy of the test results to Company. If the Customer-Generator is unable to provide a copy of the test results upon request, Company shall notify the Customer-Generator by mail that Customer-Generator has thirty (30) days from the date the Customer-Generator receives the request to provide to Company, the results of a test. If the Customer-Generator's equipment ever fails this test, the Customer-Generator shall immediately disconnect the Customer-Generator's System from Company's system. If the Customer-Generator does not provide results of a test to Company within thirty (30) days of receiving a request from Company or the results of the test provided to Company show that the Customer-Generator's net metering unit is not functioning correctly, Company may immediately disconnect the Customer-Generator's System from Company's system. The Customer-Generator's System shall not be reconnected to Company's electrical system by the Customer- Generator until the Customer-Generator's System is repaired and operating in a normal and safe manner.

I have read, understand, and accept the provisions of Section D, subsections 1 through 9 of this Application/Agreement.

	Signed (Co	ustomer-Generator):			Date:	
	*Indicat	es Change.			FILED Missouri Public Service Commiss YE-2013-0208	sion
CANCELLED June 30, 2013	DATE OF ISSUE	October 29, 2	012	DATE EFFECTIVE	November 29, 20	12 12
Missouri Public Service Commissio ET-2013-0546; JE-2013	on 📃	Warner L. Baxter NAME OF OFFICER	Pres	sident & CEO TITLE	St. Louis, Mis ADDRESS	souri

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1

CANCELLING SCHEDULE NO. 1

2nd Revised SHEET NO. 18

APPLYING TO

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

****8)** Testing Requirement

IEEE 1547 requires periodic testing of all interconnection related protective functions. The Customer-Generator must, at least once every year, conduct a test to confirm that the Customer-Generator's net metering unit automatically ceases to energize the output (interconnection equipment output voltage goes to zero) within two (2) seconds of being disconnected from Company's electrical system. Disconnecting the net metering unit from Company's electrical system at the visible disconnect switch and measuring the time required for the unit to cease to energize the output shall satisfy this test. The Customer-Generator shall maintain a record of the results of these tests and, upon request by Company, shall provide a copy of the test results to Company. If the Customer-Generator is unable to provide a copy of the test results upon request, Company shall notify the Customer-Generator by mail that Customer-Generator has thirty (30) days from the date the Customer-Generator receives the request to provide to Company, the results of a test. If the Customer-Generator's equipment ever fails this test, the Customer-Generator shall immediately disconnect the Customer-Generator's System from Company's system. If the Customer-Generator does not provide results of a test to Company within thirty (30) days of receiving a request from Company or the results of the test provided to Company show that the Customer-Generator's net metering unit is not functioning correctly, Company may immediately disconnect the Customer-Generator's System from Company's system. The Customer-Generator's System shall not be reconnected to Company's electrical system by the Customer- Generator until the Customer-Generator's System is repaired and operating in a normal and safe manner.

*9) Ownership of Renewable Energy Credits (REC's)

All REC's created through the operation of Customer-Generator's system are owned by Customer-Generator. This contract does not grant any control or title over REC's to Company. Company is not precluded from making an offer to purchase said REC's through a separate and mutually agreed upon contract for that purpose.

I have read, understand, and accept the provisions of Section D, subsections 1 through 9 of this Application/Agreement.

Signed (Customer-Generator): _____ Date: _____

E. Electrical Inspection

The Customer-Generator System referenced above satisfies all requirements noted in Section C.

Inspector Name	(print):
----------------	----------

Inspector Certification: I am a Licensed Engineer in Missouri _____ or

I am a Licensed Electrician in Missouri License No
--

Signed (Inspector): _____ Date: ____

FILED

Missouri Public

ET-2011-0102: YE-2011-0217

*Indicates Addition. CAN€EnceiDates Reissue. November 29, 2012 **Missouri** Public Service Commission

ET-2013-0197 YE-2013-0208 October 28, 2010 DATE EFFECTIVE November 27, 2010 ISSUED

BY_	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

	UNION ELEC	TRIC COMPANY	ELEC		E		
	P. S. C. MO., ILL.	C. C., IA. ST. C. C. SCH	EDULE NO. 1		1st Revised	SHEET	NO. <u>18</u>
		CANCELLING SCH	EDULE NO. 1		Original	SHEET	NO. 18
	APPLYING TO		MISSOUR	SERVICE A	REA		
INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED) E. Electrical Inspection The Customer-Generator System referenced above satisfies all requirements noted in Section C. Inspector Name (print): Inspector Certification: I am a Licensed Engineer in Missouri or I am a Licensed Electrician in Misso 							Missouri warranty copy of its. I am Customer- of IEEE lieve that vances on nect it to repair or
	components System's ou Application I agree not Application	or design of the Cu ttput characteristics. /Agreement to Comp to operate the Cust /Agreement	stomer-Generator I acknowledge pany. omer-Generator S has	System that in that any such r System in parall been	any way may degrade nodifications will req lel with Company's e approved	e or significantly uire submission electrical system by C	alter that of a new
CANCELLED	G. Applic Company do to property Customer-G This Applic Company	eation Approval bes not, by approval or physical injury enerator's negligence ation is approved by Representative M mpany Representative	(completed by of this Applicatio to persons due ce. Company on this Name (print): _	<u>Company</u>) n/Agreement, a to malfunction day of	Date: ssume any responsibi of the Customer-G (month),	lity or liability fo enerator's Syster (year).	
November 27, 201 Missouri Public		to the Order of	the Mo. PSC	in Case No	E0-2006-0497		
Service Commissio	n					August 29,	2007
		T. R. Voss	Pi		CEO SI		
·	·····	NAME OF OFFICER		TITLE		ADDRES	s

TICSIGCIIC	a CHO	<u> </u>	HISSOULT
TITLE		ADD	RESS
			FILED
		EO-2006-049	Missouri Public 7 Service Commision

ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. ____

ORIGINAL SHEET NO. 18

APPLYING TO

CANCELLING SCHEDULE NO. MISSOURI SERVICE AREA

SHEET NO.

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING
SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

E. Electrical Inspection

The Customer-Generator System referenced above satisfies all requirements noted in Section C. Inspector Name (print):

Inspector Certification: I am a Licensed Engineer in Missouri ____ or I am a Licensed Electrician in Missouri License No._____ _____ Date: _____ Signed (Inspector):

F. Customer-Generator Acknowledgement

I am aware of the Customer-Generator System installed on my premises and I have been given warranty information and/or an operational manual for that system. Also, I have been provided with a copy of Company's parallel generation tariff or rate schedule (as applicable) and interconnection requirements. I am familiar with the operation of the Customer-Generator System.

I agree to abide by the terms of this Application/Agreement and I agree to operate and maintain the Customer-Generator System in accordance with the manufacturer's recommended practices as well as Company's interconnection standards. If, at any time and for any reason, I believe that the Customer-Generator System is operating in an unusual manner that may result in any disturbances on Company's electrical system, I shall disconnect the Customer-Generator System and not reconnect it to Company's electrical system until the Customer-Generator System is operating normally after repair or inspection. Further, I agree to notify Company no less than thirty (30) days prior to modification of the components or design of the Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics. I acknowledge that any such modifications will require submission of a new Application/Agreement to Company.

I agree not to operate the Cus	tomer-Gener	rator System in par	rallel with Company	y's electrical	system until this
Application/Agreement	has	been	approved	by	Company.
Signed (Customer-Generator):			Date:	•	

G. Application Approval (completed by Company)

Company does not, by approval of this Application/Agreement, assume any responsibility or liability for damage to property or physical injury to persons due to malfunction of the Customer-Generator's System or the Customer-Generator's negligence. This Application is approved by Company on this _____day of _____(month), _____(year).

Company Representative Name (print):

Signed Company Representative:

August 28, 2003 P.S.C. Mo. DATE OF ISSUE ______ August 14, 2003 _____ DATE EFFECTIVE ______ Geptember 13, 2003 CANCELLED C. W. Mueller Chairman & CEO ISSUED BY St. Louis, Missouri August 29, 2007 NAME OF OFFICER TITLE ADDRESS **FILED Missouri Public** Service Commission

UNION ELECTRIC COMPANY ELECTRIC SERVICE

P. S. C. MO., ILL. C. C., IA. ST. C	. C. SCHEDULE NO. <u>1</u>		2nd	Revised	SHEET NO.	19
CANCELL	NG SCHEDULE NO. <u>1</u>		1st	Revised	SHEET NO.	19
APPLYING TO	MISSOURI	SERVICE 2	AREA			
INTERCONNECTI	ON APPLICATION/AGE	REEMENT	FOR NE	T METERING	SYSTEMS WIT	H
	CAPACITY OF 100 k	W OR LES	S – (COI	NTINUED)		_
E. Electrical Inspe	ection					
	aving Jurisdiction (AHJ)	governs per	mitting/i	nspection of pr	oiect:	
·	er:	•	8		0	
Applicable to all installa		—				
	r System referenced above	satisfies all r	equireme	ents noted in Sec	tion C.	
			•			
Inspector Certification:	Licensed Engineer in Mi	issouri	or			
-	Licensed Electrician in N	Missouri	Licen	se No		
Signed (Inspector):			Date:			
F. Customer-Gene	erator Acknowledge	ement				
information and/or an Company's parallel gen	tomer-Generator System i operational manual for the eration tariff or rate sched on of the Customer-Genera	nat system. lule (as appli	Also, I	have been pro	wided with a cop	y of
	erms of this Application/A					

Generator System in accordance with the manufacturer's recommended practices as well as the Company's interconnection standards. If, at any time and for any reason, I believe that the Customer-Generator System is operating in an unusual manner that may result in any disturbances on Company's electrical system, I shall disconnect the Customer-Generator System and not reconnect it to Company's electrical system until the Customer-Generator System is operating normally after repair or inspection. Further, I agree to notify Company no less than thirty (30) days prior to modification of the components or design of the Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics. I acknowledge that any such modifications will require submission of a new Application/Agreement to Company.

I agree not to operate the Customer-Generator System in parallel with Company's electrical system until this Application/Agreement has been approved by Company.

Signed (Customer-Generator):	 Date:	

G. Application Approval (completed by Company)

CANCELLED June 30, 2013 Missouri Public Service Commissio

ET-2013-0546; JE-2013-0582

Company does not, by approval of this Application/Agreement, assume any responsibility or liability for damage to property or physical injury to persons due to malfunction of the Customer-Generator's System or the Customer-Generator's negligence.

	cation is approved by Company or Representative Name (print):	• ·	
Signed Cor	mpany Representative:		
*Indicates	Change.		FILED Missouri Public Service Commission ET-2013-0351; YE-2013-0313
DATE OF ISSUE	January 9, 2013	DATE EFFECTIVE	January 8, 2013
ISSUED BY	Warner L. Baxter	President & CEO TITLE	St. Louis, Missouri ADDRESS

UNION ELECTRIC COMPANY **ELECTRIC SERVICE**

P. S. C. MO., ILL. C. C., IA. ST. C.	C. SCHEDULE NO. 1	1st Revised	SHEET NO.	19				
CANCELLI	NG SCHEDULE NO. 1	Original	SHEET NO.	19				
APPLYING TO	MISSOURI SER	VICE AREA						
INTERCONNECTIO	ON APPLICATION/AGREEN CAPACITY OF 100 kW O	<u>MENT FOR NET METERING SY</u> <u>R LESS – (CONTINUED)</u>	STEMS WITH	Ŧ				
<u>*E. Electrical Inspective *E. Electrical Inspective *E. Electrical Inspective *E. Electrical *E. Electrical *E</u>	ection							
If a local Authority Ho	using Jurisdiction (AHJ) gove	rns permitting/inspection of projec	t:					
Provide Permit Numbe	r:							
Applicable to all installa	tions:							
The Customer-Generator System referenced above satisfies all requirements noted in Section C.								
Inspector Name (print):	Inspector Name (print):							
Inspector Certification:	Licensed Engineer in Missour	ri or						
	Licensed Electrician in Misso	ouri License No						
Signed (Inspector):		Date:						
* <u>F. Customer-Gen</u>	erator Acknowledgeme	ent						
information and/or an Company's parallel gene	operational manual for that sy	led on my premises and I have be ystem. Also, I have been provide as applicable) and interconnection re ystem.	ed with a copy	y of				
Generator System in ac interconnection standard operating in an unusual	cordance with the manufacture ls. If, at any time and for any re- manner that may result in any	ment and I agree to operate and main r's recommended practices as well eason, I believe that the Customer-G disturbances on Company's electric reconnect it to Company's electrica	as the Compa Generator System ical system, I s	ny's m is shall				

Customer-Generator System is operating normally after repair or inspection. Further, I agree to notify Company no less than thirty (30) days prior to modification of the components or design of the Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics. I acknowledge that any such modifications will require submission of a new Application/Agreement to Company.

I agree not to operate the Customer-Generator System in parallel with Company's electrical system until this Application/Agreement has been approved by Company.

Signed (Customer-Generator): Date:

G. Application Approval (completed by Company)

Company does not, by approval of this Application/Agreement, assume any responsibility or liability for damage to property or physical injury to persons due to malfunction of the Customer-Generator's System or the Customer-Generator's negligence.

		cation is approved by Company or Representative Name (print):	·	
	Signed Co	mpany Representative:		
	*Indicates	Change.		FILED Missouri Public Service Commission YE-2013-0208
CANCELLED January 24, 2013	DATE OF ISSUE	October 29, 2012	DATE EFFECTIVE	November 29, 2012
Missouri Public Service Commission ET-2013-0351; YE-2013-03	ISSUED BY	Warner L. Baxter NAME OF OFFICER	President & CEO TITLE	St. Louis, Missouri ADDRESS

ELECTRIC SERVICE UNION ELECTRIC COMPANY

P. S. C. MO., ILL. C. C., IA. ST. C. C. SCHEDULE NO. 1

CANCELLING SCHEDULE NO.

Original SHEET NO. 19

SHEET NO.

APPLYING TO

MISSOURI SERVICE AREA

INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF 100 kW OR LESS - (CONTINUED)

*F. Customer-Generator Acknowledgement

I am aware of the Customer-Generator System installed on my premises and I have been given warranty information and/or an operational manual for that system. Also, I have been provided with a copy of Company's parallel generation tariff or rate schedule (as applicable) and interconnection requirements. I am familiar with the operation of the Customer-Generator System.

I agree to abide by the terms of this Application/Agreement and I agree to operate and maintain the Customer-Generator System in accordance with the manufacturer's recommended practices, the provisions of IEEE Standard 1547 and the Company's interconnection standards. If, at any time and for any reason, I believe that the Customer-Generator System is operating in an unusual manner that may result in any disturbances on Company's electrical system, I shall disconnect the Customer-Generator System and not reconnect it to Company's electrical system until the Customer-Generator System is operating normally after repair or inspection. Further, I agree to notify Company no less than thirty (30) days prior to modification of the components or design of the Customer-Generator System that in any way may degrade or significantly alter that System's output characteristics. I acknowledge that any such modifications will require submission of a new Application/Agreement to Company.

I agree not to operate the Customer-Generator System in parallel with Company's electrical system until this Application/Agreement has been approved by Company.

Signed (Customer-Generator): _____ Date:

*G. Application Approval (*completed by* Company)

Company does not, by approval of this Application/Agreement, assume any responsibility or liability for damage to property or physical injury to persons due to malfunction of the Customer-Generator's System or the Customer-Generator's negligence.

This Application is approved by Company on this _____ day of _____ (month), _____ (year).

Company Representative Name (print):

Signed Company Representative:

CANCELED		
November 29, 2012		FILED
Missouri Public		Missouri Public Service Commission
Service Commission		ET-2011-0102; YE-2011-0217
ET-2013-0197 YE-2013-0208 October 28, 2010	DATE EFFECTIVE	November 27, 2010
ISSUED BY Warner L. Baxter	President & CEO	St. Louis, Missouri
NAME OF OFFICER	TITLE	ADDRESS

ELECTRIC SERVICE

	ELLING SCHEDULE NO.			SHEE
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INTERCONNEC	CTION APPLICATION/ CAPACITY OF 1	AGREEMENT FOR 00 kW OR LESS – ((
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	No.:DO			olar panels):
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Missouri Public ISSUED BY	Warner L. Baxter		
Service Commission	NAME OF OFFICER		
ET-2013-0546: JE-2013-0582			

President & CEO TITLE

St. Louis, Missouri ADDRESS