



Bill Eichman
Manager of Industrial & Commercial Energy Services

April 6, 2016

RLJ Morris L. Woodruff, Secretary
Missouri Public Service Commission
200 Madison St Suite 100
PO Box 360
Jefferson City, MO 65120

Mr. Woodruff:

Enclosed is a copy of the standard information regarding net metering, interconnection requirements and solar rebates that is made available to our customers on our Web Site (www.empiredistrict.com).

Prior to May 16, 2015 we were averaging approximately 5-6 "direct" inquiries per month (telephone/e-mail/in-person) regarding Net Metering (most are Missouri customers). On that date an updated version of our Missouri Net Metering Rider went into effect which included a Solar Rebate Application. The availability of this rebate to customers installing qualified Solar Energy Generation systems substantially increased the volume of inquiries and applicants.

On May 16, 2015 there were 49 operational Net Metering customers. Before the end of 2015 we received an additional 632 Net Metering applications.

I am also enclosing a copy of the 2015 Net Metering statistics.

If you have any questions, or if I can be of further service, please feel free to contact me at (417)625-5116.

Thank you,

A handwritten signature in black ink that reads "Bill Eichman".

Bill Eichman
Energy Services Department



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Solar Rebate Information
 (for Missouri Electric Customers)

Empire is currently accepting solar rebate applications pursuant to its Solar Rebate Rider, tariff sheets 23-23h, and rebate payments are available pursuant to law and Empire's tariff. Empire has not filed with the MoPSC a sixty-day notice of reaching its annual retail rate impact limit pursuant to RSMo. Section 393.1030.

Effective May 16, 2015, Empire began offering rebates for Missouri customers for qualifying solar installations in accordance with the Missouri Renewable Energy Standard and [Empire's Solar Rebate Rider](#) approved by the Missouri Public Service Commission (MPSC). Rebates are available on a first-come, first-served basis determined by the application postmark date and availability guidelines listed below.

- Customer must submit [Missouri Solar Electric Rebate Application](#) with all required documentation to:

The Empire District Electric Company
 ATTN: ENERGY SERVICES/NET METERING
 PO Box 127
 Joplin MO 64802

- Customer must have a completed and approved [Net Metering Application and Agreement](#) on file with the Company in accordance with the Company's [Net Metering Rider](#).
- Customer must be an active account on the Company's system and in good payment standing.
- The system must be permanently installed on the customer's premise.
- The customer must declare the installed system will remain in place on the account holder's premise for the duration of its useful life which shall be deemed to be a minimum of ten (10) years.
- The solar modules and inverters shall be new equipment and include a manufacturer's warranty of ten (10) years.
- No retail electric account will be eligible for a solar rebate for less than 500 watts (0,5 kW) or more than twenty-five kilowatts (25 kW) of new or expanded new capacity irrespective of the number of meters/service points associated with the account holder.
- The system shall meet all requirements of 4 CSR 240-20.065 and the Company's Net Metering Rider.
- The system must be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the system.
- The customer must execute an affidavit for Company's use in complying with §393.1030 RSMo.
- The system or expansion of an existing system must become operational after December 31, 2009, and on or before June 30, 2020.

Summary of Rebate Levels for Approved Applications

Application Received on or before December 31 st of the Year	Operation Status Achieved on or before June 30 th of the Year	Rebate Rate per Watt
2015	2014	\$2.00
2015	2015	\$1.50
2015	2016	\$1.00
2016-2018	2017-2019	\$0.50
2019	2020	\$0.25

Related Document Links

- [Affidavit - Business Customer](#)
- [Affidavit - Individual Customer](#)
- [IRS Form W-9](#)
- [Net Metering \(Customer-Owned Generation\) Standards 05-08-2015](#)
- [Net Metering Application](#)
- [Solar Rebate Application](#)
- [Solar Rebate Flowchart - Existing NM Customer](#)
- [Solar Rebate Flowchart - New NM Customer](#)

■ 602 S Joplin Avenue ■ PO Box 127 ■ Joplin, MO 64802 ■

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CUSTOMER AFFIDAVIT (BUSINESS ENTITY)

I, _____, certify that I am the _____ of _____ (the "Customer"), organized under the laws of the State of _____, and in that capacity on behalf of the Customer, being first duly sworn, on oath state that all energy associated with the transfer of solar renewable credits ("SRECs") to The Empire District Electric Company (the "Company") pursuant to the Company's Rider SR – Solar Rebate tariff shall be derived from an eligible solar renewable energy resource installed at _____ and currently designated by account number _____.

Affiant further states on behalf of the Customer that: 1) the solar renewable energy resource has been installed in accordance with the design submitted to the Company as part of the Customer's Interconnection Application/Agreement for Net Metering Systems with Capacity of One Hundred Kilowatts (100 kW) or Less (the "Agreement"); 2) the Customer has the legal right and authority to transfer the SRECs to the Company; 3) the SRECs being transferred to the Company have not been transferred, sold or promised for sale to any other party, nor have they been used to meet the requirements of any other local or state mandate, "green" building certification program, or any other environmental renewable program; and 4) the SRECs will not be offered to any other party or used in any "green" building certification program for a period of ten (10) years from the effective date of the Customer's Agreement with the Company.

IN WITNESS WHEREOF, I HAVE EXECUTED THIS DOCUMENT ON BEHALF OF THE CUSTOMER ON THIS _____ DAY OF _____, 20_____.

Signature

Print Name

Title

Customer Name

Subscribed and sworn to before me, a notary public, by the above named affiant this _____ day of _____, 20_____.

Notary Public

My commission expires:

CUSTOMER AFFIDAVIT (INDIVIDUAL)

I, _____, the affiant and Customer being first duly sworn, on oath state that all energy associated with the transfer of solar renewable credits (“SRECs”) to The Empire District Electric Company (the “Company”) pursuant to the Company’s Rider SR – Solar Rebate tariff shall be derived from an eligible solar renewable energy resource installed at _____ and currently designated by account number _____.

Affiant further states that: 1) the solar renewable energy resource has been installed in accordance with the design submitted to the Company as part of the affiant’s Interconnection Application/Agreement for Net Metering Systems with Capacity of One Hundred Kilowatts (100 kW) or Less (the “Agreement”); 2) the affiant has the legal right and authority to transfer the SRECs to the Company; 3) the SRECs being transferred to the Company have not been transferred, sold or promised for sale to any other party, nor have they been used to meet the requirements of any other local or state mandate, “green” building certification program, or any other environmental renewable program; and 4) the SRECs will not be offered to any other party or used in any “green” building certification program for a period of ten (10) years from the effective date of the Customer’s Agreement with the Company.

IN WITNESS WHEREOF, I HAVE EXECUTED THIS DOCUMENT ON THIS _____ DAY OF _____, 20_____.

Signature

Print Name

Subscribed and sworn to before me, a notary public, by the above named affiant this _____ day of _____, 20_____.

Notary Public

My commission expires:

Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester;
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details);

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code* on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships* above.

What is FATCA reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; do not leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account, list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9.

a. Individual. Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note. ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. Sole proprietor or single-member LLC. Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. Partnership, LLC that is not a single-member LLC, C Corporation, or S Corporation. Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. Other entities. Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. Disregarded entity. For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(i). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2. "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-9 instead of a Form W-8. This is the case even if the foreign person has a U.S. TIN.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see Exempt payee code earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.
2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.
3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.
4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. *Other payments¹ include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).
5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number to Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account ²
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor ²
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee ² The actual owner ²
5. Sole proprietorship or disregarded entity owned by an individual	The owner ²
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor ²
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity ²
9. Corporation or LLC electing corporate status on Form 992 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see Special rules for partners (see page 2).

*Note. Grantor also must provide a Form W-9 to trustee of trust.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN.
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4035, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-368-4484. You can forward suspicious emails to the Federal Trade Commission at: spam@uce.gov or contact them at www.ftc.gov/idtheft or 1-877-IDTHEFT (1-877-438-4398).

Visit IRS.gov to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box in line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box in line 3.
Limited Liability Company (LLC). If the name on line 1 is an LLC treated as a partnership for U.S. federal tax purposes, check the "Limited Liability Company" box and enter "P" in the space provided. If the LLC has filed Form 9932 or 2553 to be taxed as a corporation, check the "Limited Liability Company" box and in the space provided enter "C" for C corporation or "S" for S corporation. If it is a single-member LLC that is a disregarded entity, do not check the "Limited Liability Company" box; instead check the first box in line 3 "Individual/sole proprietor or single-member LLC."

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space in line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank.

Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

- A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)
 - B—The United States or any of its agencies or instrumentalities
 - C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
 - D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)
 - E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)
 - F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state
 - G—A real estate investment trust
 - H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940
 - I—A common trust fund as defined in section 584(a)
 - J—A bank as defined in section 581
 - K—A broker
 - L—A trust exempt from tax under section 664 or described in section 4947(a)(1)
 - M—A tax exempt trust under a section 403(b) plan or section 457(g) plan
- Note. You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on this page), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at www.ssa.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/businesses and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting IRS.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

The Empire District Electric Company

Requirements For Net Metering



SERVICES YOU COUNT ON

(800) 206 – 2300

The latest revision of this book can be found at www.empiredistrict.com under the "Customer Service" tab.

Effective 05/08/2015

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1.0 INTRODUCTION

The Empire District Electric Company constantly strives to maintain a high standard of service to all Customers. This booklet has been prepared for use by Customers, architects, engineers, electrical contractors and local inspecting authorities so they may receive full benefit from our service. Copies are available at the Empire District Electric Company's Corporate office, service centers, and web site. All holders of "Requirements For Net Metering" booklets are encouraged to submit comments to aid in future revisions. Please submit comments as follows:

1. Give section, paragraph and page number to which the comment pertains.
2. Submit comments in writing; giving details, sketches, drawings, and all supporting pertinent information.
3. Mail via USPS to:

THE EMPIRE DISTRICT ELECTRIC COMPANY
Energy Services/Net Metering
P. O. BOX 127
602 South Joplin Avenue
Joplin, MO 64802

The impression generally prevails that compliance with the National Electrical Code (NEC), or the various electrical ordinances guarantees to the Customer a wiring installation complete and adequate for the full use of electric service now and in the future. This is not necessarily the case. The NEC and these guidelines are designed to provide the minimum requirements considered necessary for safety. **(The 2008 NEC, Article 90.1 B itself states, "Compliance therewith and proper maintenance will result in an installation essentially free from hazard, but not necessarily efficient, convenient or adequate for good service for future expansion of electrical use.")** Careful design and installation often results in a wiring system that exceeds NEC requirements.

THE EMPIRE DISTRICT ELECTRIC COMPANY, as a utility, must meet the requirements of the National Electrical Safety Code (NESC), which sometimes differ from the National Electrical Code (NEC).

The Company shall have the right to disconnect or refuse service to any installation which violates local, municipal, NEC or NESC regulations. The Company shall also have the right to disconnect or refuse service for installations that are hazardous to the public, or negatively impacts service to other Customers, or Company facilities.

Except for the installation and maintenance of its own property, THE EMPIRE DISTRICT ELECTRIC COMPANY does not install or repair wiring or equipment beyond the point of delivery. Therefore, EDE is not responsible for the voltage levels beyond the point of delivery and does not assume any responsibility for Customer facilities beyond the point of delivery. Your cooperation will be greatly appreciated and will enable you to receive prompt and satisfactory service.

2.0 DEFINITIONS

Backfeed	When electric power flows in the opposite direction from it's usual flow.
Company	THE EMPIRE DISTRICT ELECTRIC COMPANY.
Customer-Generator*	The owner or operator of a qualified electric energy generation unit which: (a) Is powered by a renewable energy resource; (b) Has an electrical generating system with a capacity of not more that 100kW; (c) Is located on a premises owned, operated, leased, or otherwise controlled by the Customer-Generator; (d) Is interconnected and operates in parallel phase and synchronization with a retail electric supplier and has been approved by said retail electric supplier; (e) Is intended primarily to offset part or all of the Customer-Generator's electrical energy requirements; (f) Meets applicable safety, performance, interconnection, and reliability standards established by the National Electrical Code, the National Electrical Safety Code, the Institute of Electrical and Electronics Engineers, Underwriters Laboratories, the Federal Energy Regulatory Commission, and any local governing authorities; and (g) Contains a mechanism that automatically disables the unit and interrupts the flow of electricity back onto the supplier's electricity lines in the event that service to that Customer-Generator is interrupted.
EDE	THE EMPIRE DISTRICT ELECTRIC COMPANY.
Generator	A machine that converts mechanical energy into electrical energy.
Net Metering	Using metering equipment sufficient to measure the difference between the electrical energy supplied to a Customer-Generator by a retail electric supplier and the electrical energy supplied by the Customer-Generator to the retail electric supplier over the applicable billing period.
Rate Schedule	A schedule of rates, services, and rules approved by the Commission.
Utility-Interactive Inverter	An inverter intended for use in parallel with an electric utility to supply common loads that may deliver power to the utility.

Many of the terms included may have slight variations in the intended specific meaning within the respective state jurisdictions. Terms as defined within the approved tariff will take precedence in the event of any conflict or confusion in meaning.

3.0 NET METERING

3.1 INTRODUCTION

The summary shown below establishes a ready source of basic reference material for currently approved Rate Schedules and Rate Schedule Riders in the states where the Company provides electric service. The respective Commissions for the service areas in the four states provide periodic review of these resulting in revisions and changes to the applicable Schedules or Riders. It is the responsibility of the Customer or Customer-Generator system(s) owner to be in compliance with the approved state's Rate Schedules, Riders, or applicable Regulations which are in effect at the time of the application, installation and revisions. This would include any changes that may occur throughout the useful life of the equipment. This summary is intended as one aid to provide information and assistance in applying for, and the submittal of the minimum documentation to comply with the installing and interconnecting process for a qualified non-utility, renewable fuel sourced electric generation (or distributed electric generation) system(s). Other considerations are manufacturer's recommendations, Codes, ordinances and Company safety or equipment requirements which may apply. Please consult with a Company representative if the facility is over the power limits shown in this document.

Please note that on an existing Point of Service that the application for a qualified non-utility renewable fuel sourced electric generation (or distributed electric generation) system(s) which is to be interconnected through a point of common coupling shall be reviewed by the Company as described in Section 3.6.3 and 3.6.4. As a result of the review process, additional equipment or re-arrangement of all or a portion of the already existing service interface equipment may have to be reconfigured or changed. This may result in additional equipment & labor costs to the Customer (applicant) in order to comply with current safety standards, codes, or laws in effect at the time of the review process. **Please note should there arise any discrepancies or differences between Section 3.0 and an approved Rate Schedule, Tariff, Rider, or approved "Rules and Regulations", whether implied or otherwise, the appropriate Schedule, Tariff, Rider, or "Rules and Regulations" shall take precedence and will govern any action taken.**

3.2 INTERCONNECTION PROCESS

The Company supplies electrical service to Customers located within the four States of Missouri, Kansas, Oklahoma and Arkansas. Each state currently has applicable approved rate schedules, riders, rules and regulations or laws that address utility grid inter-connection for the Company's service area. The applicable governing bodies for the respective states are: Missouri – The Missouri Public Service Commission; Kansas – The State of Kansas Corporation Commission; Oklahoma – Oklahoma Corporation Commission; Arkansas – Arkansas Public Service Commission. Please ensure that you are familiar with and utilize the correct application documents and specific processes defined by the appropriate state agency where your system's installation is located. The Company can assist you if need guidance in this process.

This process applies to new installations and modifications to existing interconnected installations. A "generic" process is shown in Diagram 1. A completed Application shall consist of submitting the appropriate sections of the application with all fields completed, any or all technical material including manufacturer's specifications describing or defining the specific equipment to be installed, and an interconnection wiring diagram or drawing that clearly conveys the appropriate physical locations of the proposed system devices and the necessary electrical details to convey the electrical energy flow path from the proposed Customer-Generator's system source back to the utility's metering location for the premise. **The diagram must clearly show the routing and connection(s) of all conductors, i.e. line one, line two, neutral and ground) in the path from the grid-tie inverter to the load panel and include references to the Company's Point of Service.** Additional wiring detail and grounding from the renewable energy source, i.e. photovoltaic panels to the inverter would also be very helpful. Any application fees would need to be submitted also, should they apply within your state. Please mail the completed application packet via the USPS to the following address:

**THE EMPIRE DISTRICT ELECTRIC COMPANY
Energy Services/Net Metering
P. O. BOX 127
602 South Joplin Avenue
Joplin, MO 64802**

Once the application is received by the Company, there is usually a defined period of time by the state within which EDE is obligated to respond. The obligated response time period can vary depending on your state's requirements. The Company will act to initiate the review process as rapidly as possible so as to meet the time restrictions. Any delays that are the responsibility of the applicant or persons acting on their behalf in performing acts such as securing necessary right-of-ways, governmental permits/inspections or meeting zoning requirements will not be counted in the Company's mandated time to respond.

3.3 APPLY FOR INTERCONNECTION

The applicant must submit to the Company the "Interconnection Application/Agreement for Net Metering Systems/Facilities with a capacity of 100 kW or less". The Application/Agreement will contain technical specifications or references to safety related codes that assist in the safe installation and subsequent operation of a Net Metering system. **The Company encourages the Customer to submit these technical specifications to the Company before investing in any equipment.** This will ensure that the Company's engineering department can approve the proposed equipment and its installation.

The Customer must submit a separate application for each Net Metering system whether or not it is at the current location or another location. The appropriate state application form(s) may be found at <https://www.empiredistrict.com/Customerservice/Electric.aspx>

3.4 INTERCONNECTION APPLICATION REVIEW/STUDY

The Company's engineering department will perform a review of the application materials to determine the impact of the proposed equipment on the Company's system. The Company's engineering department may suggest modifications that are required to allow for safe and reliable interconnection of the Customer's proposed system to Company's utility grid. In addition, a review of the existing Company service and Customer's metering will be conducted to determine if modifications will be required to accommodate the proposed interconnection facility. Additional materials may be requested if the application is deemed incomplete or deficient in documentation.

Written conditional approval or denial with reasons for the decision will be provided within 30 days for generation systems of 10 kW or less and within 90 days for systems greater than 10 kW. An estimate of any interconnection costs will be provided in the same time period. These interconnection cost estimates are related to the installation of the physical facilities which are necessary to permit interconnected operation of the Customer's system with the Company's utility grid and shall only include those corresponding costs, which would not have been normally been incurred by the Company to provide service to the Customer. These costs may be the result of one or more of the following:

- a. additional tests and analyses of the effects of the operation of the proposed interconnected system on the Company's utility grid,
- b. additional metering equipment, and/or
- c. any necessary controls or switches.

Upon receipt of the written conditional approval, the applying Customer shall construct or install the system as submitted within the application as well as any stated modifications within the written response to the application. Any conditionally approved items will be addressed and submitted in writing by the applicant to Company describing how the items will be corrected. This is necessary before any final approval of the application will be made by the Company. Once the Customer's system is in place, the applicant shall provide to the Company the signed Application/Agreement with all items on the Electrical Inspection form completed which will indicate that the necessary electrical inspection has been performed by a qualified person.

3.5 TECHNICAL AND PERFORMANCE STANDARDS

This section will list and explain the functional interconnection requirements that are considered under IEEE 1547 (IEEE Standard for Interconnecting Distributed Resources With Electric Power Systems) as they apply to Customer-Generator net metering interconnection with the EDE power system. **Net metering interconnection equipment, such as power inverters, must be IEEE 1547 compliant as certified by UL 1741 testing in order to be approved by EDE for Net Metering installations. In addition, measurements for operational compliance with any or all of these requirements may be taken at any time by EDE in order to verify that a Customer-Generator's net metering**

interconnection system is performing according to the testing requirements of UL 1741.

Measurements for these requirements would normally be taken at the Customer-Generator metering point in practice, but may also be required at the metering point of a neighboring Customer, in the case where two or more Customers share a service connection from the same transformer.

3.5.1 GENERAL REQUIREMENT

3.5.1.1 VOLTAGE REGULATION

The Customer-Generator's inverter / interconnection equipment shall not actively regulate the voltage at the point of interconnection, neither shall it cause the service voltage of any neighboring EDE Customers to move outside of the nominal voltage +/- 5% range.

3.5.1.2 INTEGRATION OF GROUNDING WITH EDE DISTRIBUTION SYSTEM

The Customer-Generator's equipment grounding scheme shall not cause over-voltages that exceed the rating of the interconnected EDE power system equipment, or the power system equipment of any neighboring EDE Customers. In addition, the Customer-Generator's equipment grounding scheme shall not disrupt the coordination of the ground fault protection for any neighboring EDE Customers.

3.5.1.3 SYNCHRONIZATION

The Customer-Generator's inverter / interconnection equipment shall parallel with the EDE power system without causing a voltage fluctuation of greater than +/-5% of the prevailing power system voltage level, when measured at the point of common coupling with any neighboring EDE Customers, and shall also meet the voltage flicker requirements outlined under the "power quality" section of this document.

3.5.1.4 INADVERTENT ENERGIZATION OF EDE DISTRIBUTION SYSTEM

The Customer-Generator's inverter / interconnected equipment shall not energize any part of the EDE power system when that part of the EDE power system is de-energized.

3.5.1.5 ISOLATION DEVICE

A readily accessible, lockable disconnect shall be installed between the Customer-Generator's inverter / interconnection equipment and the EDE power system. The disconnect shall be knife blade style. If this location is ahead of the main protective device for the Customer's service, the disconnect will be service rated and incorporate the use of Class R type fuse(s), sized to the requirement of the Customer-Generator's inverter / interconnection equipment. The location for the isolation device shall be positioned at the meter socket location to allow EDE service personnel to isolate and lock-out the Customer-Generator's inverter / interconnection equipment when necessary without removing service to normal, non-emergency Customer loads. The isolation device make and model number chosen by the Customer-Generator in a net metering installation shall be conform to those listed in Annex A.

3.5.2 RESPONSE TO ABNORMAL CONDITIONS ON THE EDE DISTRIBUTION SYSTEM

3.5.2.1 FAULTS (SHORT CIRCUITS)

The Customer-Generator's inverter / interconnection equipment shall cease to energize the EDE power system in the event that a detectable fault (short circuit) occurs on the Customer-load side (lower-voltage side) of the EDE distribution transformer to which it is connected.

3.5.2.2 RECLOSING COORDINATION

The Customer-Generator's inverter / interconnection equipment shall cease to energize the EDE power system circuit to which it is connected prior to any reclosure of that circuit by EDE. EDE power system circuits will reclose manually or automatically in the event that the circuit opens and becomes de-energized.

3.5.2.3 VOLTAGE

The protection functions of the Customer-Generator's inverter / interconnection equipment shall detect the effective (rms) or fundamental frequency value of each phase-to-neutral voltage. When any voltage is in a range given in Table 2 (below), the Customer-Generator's inverter / interconnection equipment shall cease to energize the EDE power system within the clearing time as indicated. Clearing time is the time between the start of the abnormal voltage condition and the interconnection equipment ceasing to energize the EDE power system. The measurements for the voltage are applied at the point of the interconnection equipment in practice, and the times represent maximum clearing times for interconnected equipment with peak capacity of 30 kW or less.

Voltage Range (% of base voltage)	Clearing time (seconds)
$V < 50$	0.16
$50 \leq V < 88$	2.00
$110 < V < 120$	1.00
$V \geq 120$	0.16

Table 2 – Interconnection system response to abnormal voltages

3.5.2.4 FREQUENCY

When the EDE system frequency is in a range given in Table 3 (below), the Customer-Generator's inverter / interconnection equipment shall cease to energize the part of the EDE power system to which it is connected. Clearing time is the time between the start of the abnormal frequency condition and the interconnection equipment ceasing to energize the EDE power system. The measurements for frequency are applied at the point of the interconnection equipment in practice, and the times represent maximum clearing times for interconnected equipment with peak capacity of 30 kW or less.

Frequency Range (Hz)	Clearing time (seconds)
> 60.5	0.16
< 59.3	0.16

Table 3 – Interconnection system response to abnormal frequencies

3.5.2.5 AUTOMATIC RECONNECTION

After an EDE power system disturbance, no Customer-Generator inverter / interconnection equipment reconnection shall take place until the EDE power system voltage is within the range of 87% to 106% of nominal, and frequency is in the range of 59.3-Hz to 60.5-Hz. The interconnection equipment shall include an adjustable delay (or a fixed delay of five minutes) that may delay reconnection for up to five minutes after the EDE power system steady-state voltage and frequency are restored to the ranges previously identified.

3.5.3 POWER QUALITY

3.5.3.1 LIMITATION OF DC INJECTION

The Customer-Generator's inverter / interconnection equipment shall not inject DC current greater than 0.5% of the full rated output current when measured at the AC terminals of the interconnection equipment.

3.5.3.2 LIMITATION OF VOLTAGE FLICKER

The Customer-Generator's inverter / interconnection equipment shall not cause objectionable flicker for any neighboring Customers served from the EDE power system. "Objectionable flicker" will be measured against the EDE flicker curve limitations for the normal electric distribution system, which limit voltage fluctuations to neighboring EDE Customers of 2.5% to 3.3% to no more than one event per hour, and voltage fluctuations of 1.75% to 2.5% to no more than 60 events per hour.

3.5.3.3 HARMONICS

When the Customer-Generator's inverter / interconnection equipment is serving balanced linear loads, harmonic current injection into the EDE power system when measured at the Customer meter shall not exceed the limits stated below in Table 4. The harmonic current injections shall be exclusive of any harmonic contents due to harmonic voltage distortion already present in the EDE power system when the Customer-Generator's inverter / interconnection equipment is disconnected.

Individual Odd Harmonic Order (h)**	$h < 11$	$11 \leq h < 17$	$17 \leq h < 23$	$23 \leq h < 35$	$35 \leq h$	Total Demand Distortion (TDD)
Percent (%)	4.0	2.0	1.5	0.6	0.3	5.0

Table 4 – Maximum harmonic current distortion in percent of current (I)*

* I = the greater of either the Customer's metered current integrated demand (15 or 30 minutes) when the inverter / interconnection equipment is disconnected, or the inverter / interconnection equipment rated current capacity.

** Even harmonics are limited to 25% of the odd harmonic limits above.

3.5.4 UNINTENTIONAL ISLANDING

For an unintended island in which the Customer-Generator's inverter interconnection equipment energizes a portion of the EDE power system through the Customer metering, the interconnection equipment shall detect the island and cease to energize the EDE power system within two seconds of the formation of an island.

3.6 INTERCONNECTION TEST SPECIFICATIONS

Section 3.6.1 and 3.6.2 outline the testing criteria that are required in order for a specific inverter / interconnection system design and product to be UL 1741 certified at the design and manufacturing levels of industry. **UL 1741 certification of the Customer-Generator's inverter / interconnection equipment is required in order for EDE to approve a net metering installation. In addition, EDE reserves the right to test the Customer-Generator's inverter / interconnection system for compliance with any or all of these requirements at any time in order to verify that the equipment is performing according to the testing requirements of UL 1741.**

Section 3.6.3 refers to the design of the Customer-Generator's inverter / interconnection system as it is presented in the Customer application and documentation provided in the application process. The interconnection system design will be reviewed by EDE during the application process according to the requirements of section 3.6.3. The field installation of the Customer-Generator's inverter / interconnection system will be reviewed according to the requirements of section 3.6.3 and section 3.6.4 at the time of site visit for testing and commissioning, and verification will be made that it is installed according to the design specified in the application. The commissioning tests of section 3.6.4 will then be performed on site by EDE personnel. Section 3.6.5 describes the required maintenance of the Customer-Generator's inverter / interconnection system.

3.6.1 DESIGN TEST

This design test shall be performed as applicable to the specific interconnection system technology. The test shall be performed on a representative sample, either in the factory, at a testing laboratory, or on equipment in the field. This test applies to a packaged interconnection system using embedded components or to an interconnection system that uses an assembly of discrete components. The design test shall be conducted on the same sample in the sequence of Table 5.

Required Order	Design Test Title
1	Response to Abnormal Voltage and Frequency
2	Synchronization
3	Interconnect Integrity
6	Unintentional Islanding
7	Limitation of DC Injection
8	Harmonics

Table 5 Sequence for Conducting Design Test

3.6.1.1 RESPONSE TO ABNORMAL VOLTAGE AND FREQUENCY

This test shall demonstrate that the Customer-Generator's inverter / interconnection equipment ceases to energize the EDE System when the voltage or frequency exceeds the limits as specified in Section 3.5.2. Interconnection systems provided with field adjustable set points shall also be tested at the minimum, midpoint and maximum of the adjustable set point ranges. These tests shall be conducted using either the simulated utility or secondary injection method.

3.6.1.2 SYNCHRONIZATION

Test results conforming to requirements as listed below are accepted as indicating compliance with the requirements of Section 3.5.1.3. This test shall demonstrate that at the moment of the paralleling-device closure, all three parameters in Table 6 are within the stated ranges. This test shall also demonstrate that if any of the parameters are outside of the ranges stated in the table, the paralleling-device shall not close.

Frequency Difference (Δf , Hz)	Voltage Difference (ΔV , %)	Phase Angle Difference ($\Delta\Phi$, °)
0.3	10	20
0.2	5	15
0.1	3	10

Table 6 Synchronization Parameter Limits for Synchronous Interconnection to EDE.

3.6.1.3 INTERCONNECT INTEGRITY TEST

3.6.1.3.1 PROTECTION FROM ELECTROMAGNETIC INTERFERENCE (EMI)

The interconnection system shall be tested in accordance with ANSI/IEEE C37.90.2 to confirm that the interconnection system shall have the capability to withstand electromagnetic interference (EMI) environments as described in ANSI/IEEE C37.90.2. The influence of EMI shall not result in a change in state or mis-operation of the interconnection system.

3.6.1.3.2 SURGE WITHSTAND PERFORMANCE

The interconnection system shall be tested to ensure that it shall have the capability to withstand voltage and current surges in accordance with the environments defined in IEEE/ANSI C62.41.2 or IEEE C37.90.1 as applicable in all normal operating modes in accordance with IEEE/ANSI C62.45 for equipment rated less than 1000V to confirm that the surge withstand capability is met by using the selected test level(s) from IEEE/ANSI C62.41.2.

3.6.1.3.3 *PARALLELLING DEVICE*

A dielectric test across the open-circuited paralleling device shall be conducted to confirm it will withstand 220% of the interconnection system rated voltage.

3.6.1.4 *UNINTENTIONAL ISLANDING*

A test or field verification shall be conducted to confirm that Section 3.5.4 is met regardless of the selected method of detecting isolation.

3.6.1.5 *LIMITATION OF DC INJECTION*

The Customer-Generator's inverter / interconnection equipment shall be tested to confirm that it does not inject DC current greater than prescribed limits that are listed in Section 3.5.3.1.

3.6.1.6 *HARMONICS*

The intent of the harmonics interconnection test is to assess that under a controlled set of conditions the Customer-Generator's inverter / interconnection equipment meets the harmonic limits specified in Section 3.5.3.3.

The Customer-Generator's inverter / interconnection equipment shall be operated in parallel with a predominantly inductive voltage source with a short circuit current capacity I_{sc} of not less than 20 times the Customer-Generator's inverter / interconnection equipment's rated output current at fundamental frequency. The voltage and frequency output of the voltage source shall correspond to the rated voltage and frequency of the Customer-Generator's inverter / interconnection equipment. The unloaded voltage waveform produced by the EDE or simulated utility voltage source shall have a total harmonic distortion (THD) less than 2.5 %.

The Customer-Generator's inverter / interconnection equipment shall be operated at an output test load current, I_L , of 33%, 66% and at a level as close to 100% of rated output current as practical. Use total rated-current distortion (TRD) in place of TDD. TRD is the total rms value of the sum of the current harmonics created by the Customer-Generator's inverter / interconnection equipment operating into a linear balanced load divided by the greater of the test load current (I_L) demand or the rated current capacity of the Customer-Generator's inverter / interconnection equipment (I_{rated}). The individual harmonic distortion and TRD of the DR output current shall be measured for the first 40 harmonics. The harmonic current injections shall be exclusive of any harmonic currents due to harmonic voltage distortion present in the EDE system without the Customer-Generator's inverter / interconnection equipment connected. The test results shall not exceed the values in Section 3.5.3.3 Table 3.

3.6.2 *PRODUCTION TESTS*

The inverter / interconnection equipment shall be subjected to requirements of Section 3.5.2 and Section 3.5.1.3. Inverter / interconnection devices with adjustable setpoints shall be tested at a single set of setpoints as specified by the manufacturer. This test may be conducted as a factory test or may be performed as part of a commissioning test.

3.6.3 *INTERCONNECTION INSTALLATION EVALUATION*

3.6.3.1 *GROUNDING INTEGRATION WITH EDE*

System design verification shall be made to ensure that the requirements of Section 3.5.1.2 have been met.

3.6.3.2 *ISOLATION DEVICE*

System design verification shall be made to ensure that the requirements of Section 3.5.1.5 have been met.

3.6.3.3 *EDE FAULTS*

A system design verification shall be made to ensure that the requirements of Section 3.5.2.1 have been met.

3.6.3.4 *EDE RECLOSING COORDINATION*

System design verification shall be made to verify the interconnection system is coordinated with EDE reclosing practices in accordance with Section 3.5.2.2.

3.6.4 COMMISSIONING TEST

A visual inspection shall be made in order to ensure that the grounding coordination requirement of section 3.5.1.2 has been implemented. A visual inspection shall be made to confirm the presence of the isolation device. Initial commissioning tests shall be performed on the installed Customer-Generator's inverter / interconnection equipment as necessary prior to the initial parallel operation of the Customer-Generator's inverter / interconnection equipment. The following tests are required:

- Operability test on the isolation device.
- Response to loss and re-energization of the utility source, specifically according to the requirements of section 3.5.2.5, section 3.5.2.2, and section 3.5.1.4.
- Any other tests of Section 3.5 that EDE deems necessary in order to validate that the functional installation of the Customer-Generator interconnection system is actually performing according to the testing requirements of UL 1741.

EDE reserves the right to repeat the applicable tests of Section 3.5 when functional software or firmware changes have been made on the interconnection system or any hardware component of the interconnection system has been modified in the field, or replaced or repaired with parts different from the tested configuration. EDE also reserves the right to repeat the applicable tests if protection settings have been changed after factory testing or protection functions have been adjusted after the initial commissioning process.

3.6.5 PERIODIC INTERCONNECTION TESTS

All interconnection-related protective functions and associated batteries shall be periodically tested at intervals specified by the manufacturer, system integrator, or the authority who has jurisdiction over the Customer-Generator's inverter / interconnection. Periodic test reports or a log for inspection shall be maintained. These records may be requested by EDE at any time in order to verify that the inverter / interconnection equipment is being properly maintained.

For items not specifically addressed in these drawings, please consult the Company's Residential Requirements for Electric Service and Meter Installations book.

For Approved Disconnect Switches Refer to Annex A.

This placard shall be mounted directly by the switch on the structure, not on the switch. See Figure 4 for details.

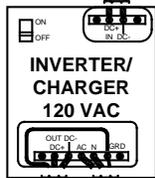
Placard

Ground Bar

Neutral Bar

AC SUB-PANEL
THIS PANEL MAY BE USED TO SUPPLY OTHER HOUSE LOADS.

TO RENEWABLES GENERATOR



Neutral and Ground are Separated in This Panel

Ground Bar

TO SERVICE PANEL

INTERSYSTEM BONDING BLOCK

TO GROUND ROD

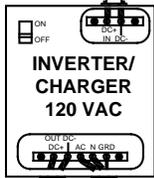
This external mechanical switch will have provisions to be locked in the open position by the use of a padlock.

Neutral and Ground are Separated in This Panel

Ground Bar
This placard shall be placed in this panel as per 2014 NEC Article 705.12 (D) (3) (b).

WARNING
INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

TO RENEWABLE GENERATOR



Neutral Bar

DC PANEL
THIS PANEL SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE BATTERY BANK

BATTERY BANK

The location of Storage Batteries shall meet NEC Article 480.9 A, B, and C.

This figure is designed to help the Customer who chooses to consider a Renewable Generator. It is not intended as a design schematic. Please refer to NEC Article 690 as well as the applicable parts of Article 90 and 700 as well as Chapter 1,2,3,and 4 which will supplement Article 690. Each Customer's Licensed Electrician will be responsible for providing a schematic for their Installation. This Schematic will specifically address the following issues:

- Grounding for All Devices
- Disconnect Location
- Placarding

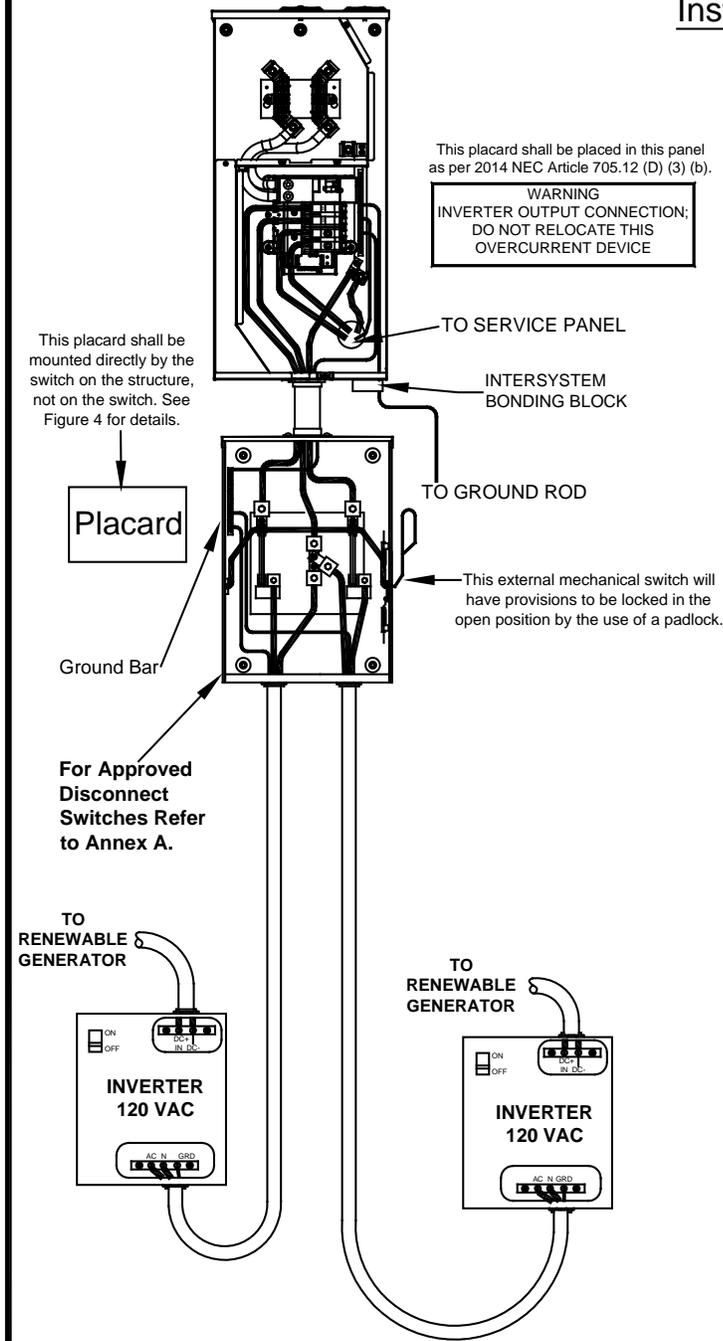
Please note that the placarding described in Article 690 does not apply to the disconnect switch placarding. Follow the specific direction shown in this document.

REVISIONS

THE EMPIRE DISTRICT ELECTRIC CO. JOPLIN, MISSOURI	
RENEWABLE GENERATOR WITH CHARGER, BACKUP BATTERIES, AND EMERGENCY PANEL	
DWG. NO.	
DRAWN: SDS	DATE: 12/14/2010
SCALE: NTS	FIGURE 1

Figure 1: Renewable Generator With Charger, Backup Batteries, and Emergency Panel

For items not specifically addressed in these drawings, please consult the Company's Residential Requirements for Electric Service and Meter Installations book.



This figure is designed to help the Customer who chooses to consider a Renewable Generator. It is not intended as a design schematic. Please refer to NEC Article 690 as well as the applicable parts of Article 90 and 700 as well as Chapter 1,2,3,and 4 which will supplement Article 690. Each Customer's Licensed Electrician will be responsible for providing a schematic for their Installation. This Schematic will specifically address the following issues:

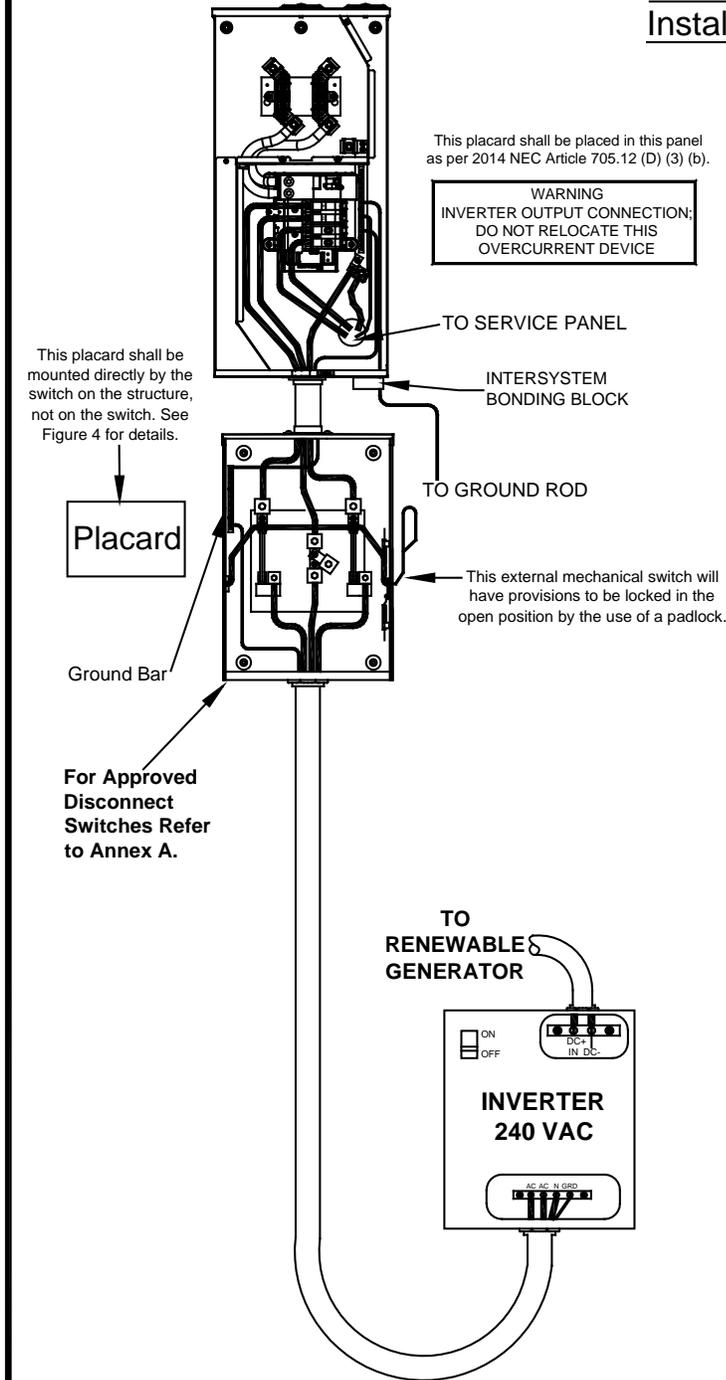
- Grounding for All Devices
- Disconnect Location
- Placarding

Please note that the placarding described in Article 690 does not apply to the disconnect switch placarding. Follow the specific direction shown in this document.

THE EMPIRE DISTRICT ELECTRIC CO. JOPLIN, MISSOURI	
RENEWABLE GENERATOR WITHOUT BATTERIES-DIRECT THROUGH INVERTER INTO MAIN PANEL	
DWG. NO.	DATE: 12/14/2010
DRAWN: SDS	SCALE: NTS
FIGURE 2	

Figure 2: Renewable Generator w/o Batteries – Direct Through Inverter Into Main Panel

For items not specifically addressed in these drawings, please consult the Company's Residential Requirements for Electric Service and Meter Installations book.



This figure is designed to help the Customer who chooses to consider a Renewable Generator. It is not intended as a design schematic. Please refer to NEC Article 690 as well as the applicable parts of Article 90 and 700 as well as Chapter 1,2,3,and 4 which will supplement Article 690. Each Customer's Licensed Electrician will be responsible for providing a schematic for their Installation. This Schematic will specifically address the following issues:

- Grounding for All Devices
- Disconnect Location
- Placarding

Please note that the placarding described in Article 690 does not apply to the disconnect switch placarding. Follow the specific direction shown in this document.

DWG NO. SDS REVISIONS	THE EMPIRE DISTRICT ELECTRIC CO. JOPLIN, MISSOURI	
	RENEWABLE GENERATOR WITHOUT BATTERIES-DIRECT THROUGH INVERTER INTO MAIN PANEL	
	DWG. NO.	DATE: 12/14/2010
	DRAWN: SDS SCALE: NTS	FIGURE 3

Figure 3: Renewable Generator w/o Batteries – Direct Through Inverter Into Main Panel

3.7 INTERCONNECTION AGREEMENT COMPLETION

A date for conducting any necessary equipment modifications to accomplish the interconnection will be set. Often the same time can be utilized to witness the final mandatory commissioning test of the interconnection facilities which is to demonstrate the system's response to a loss of utility service event. Once the installation is complete, a satisfactory witness of the mandatory commissioning test is completed, and payment of any previously explained costs are made, the formal application/agreement phase will be considered complete. The application/agreement requires that all applicable periodic testing along with the required documentation which is completed by the Customer/Producer be maintained on site. Also the Company shall be notified of any proposed alterations or modifications to the current system or transfer of operational control of the current interconnected system.

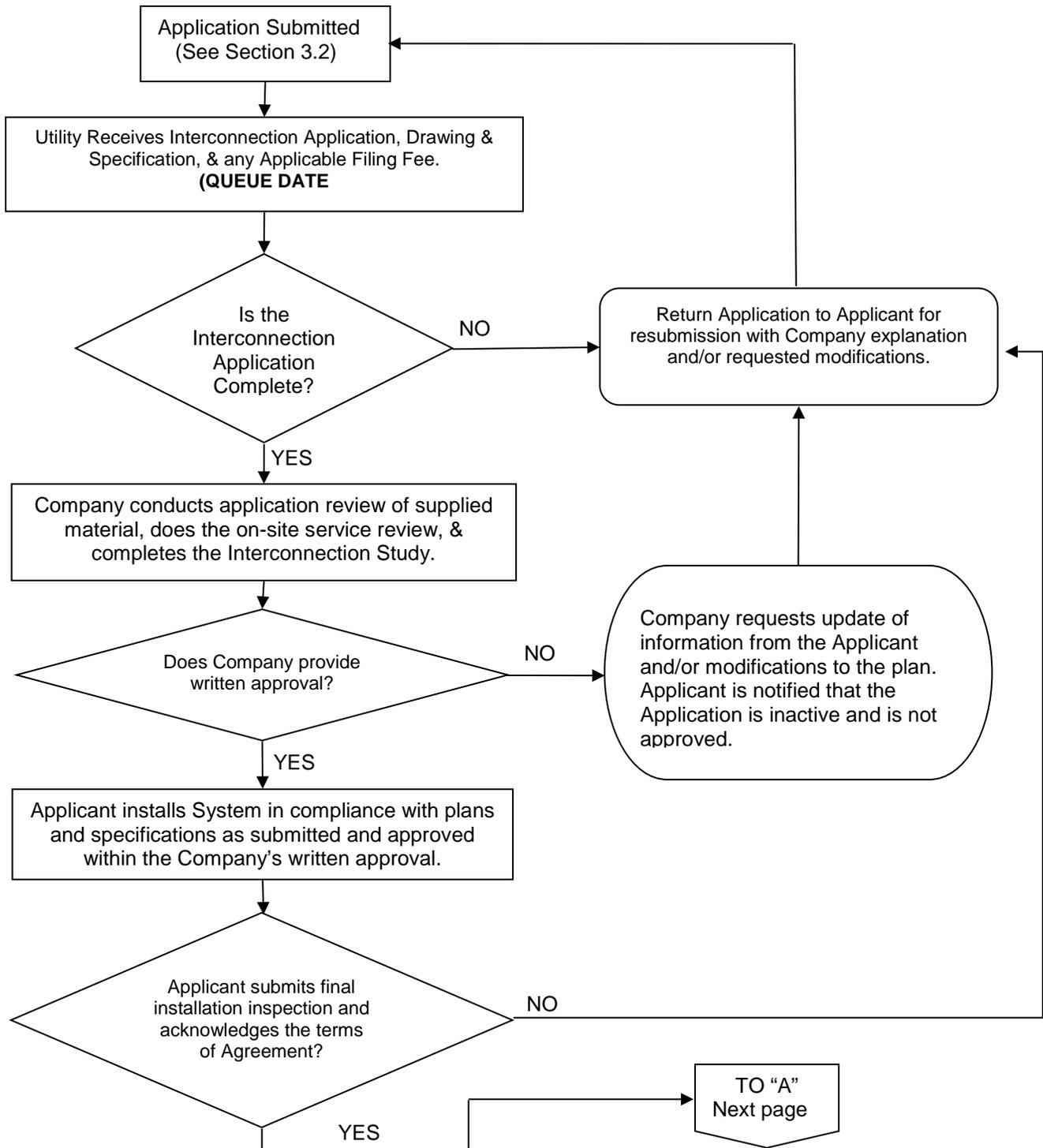


Diagram 1 Generic Interconnection Process

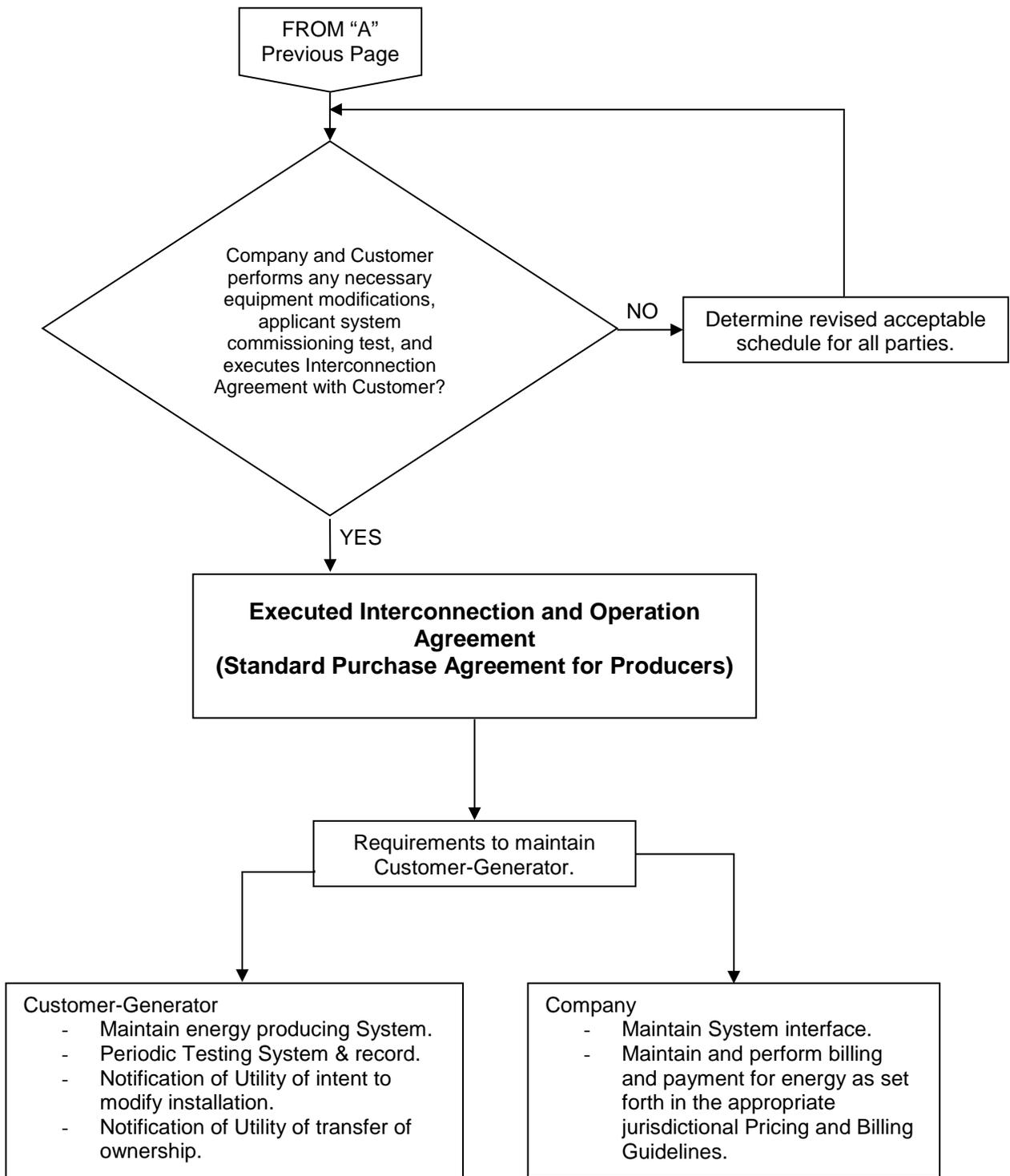


Diagram 1 (Continued) Generic Interconnection Process

3.8 RATE SCHEDULES

3.8.1 MISSOURI – NET METERING RIDER (RIDER NM) – INCLUDING APPLICATION.

www.empiredistrict.com/DocHandler.ashx?id=2509

3.8.2 KANSAS – NET METERING RIDER (RIDER NM) – INCLUDING APPLICATION.

www.empiredistrict.com/DocHandler.ashx?id=2321

3.8.3 OKLAHOMA

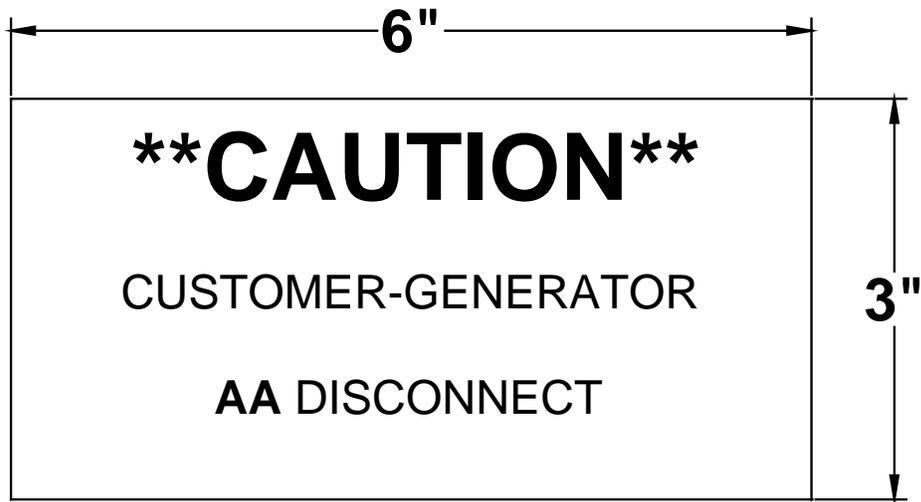
- Optional Net Energy Billing Purchase Rate (Schedule NEB)
- Standard Non-Firm Purchase Rate Schedule (Schedule NFP)
- Standard Firm Purchase Rate Schedule (Schedule FP)
- Standard Terms and Conditions of Purchase from Producers of 100kW or Less. (Section 4; Purchase Agreement)

Please contact your Empire District Electric Representative.

3.8.4 ARKANSAS

- :Net Metering (Part III, Rate Schedule 22)
www.empiredistrict.com/DocHandler.ashx?id=2518
- Standard Interconnection Agreement for Net Metering Facilities– Application. (APSC. Net Metering Rules, Appendix A)

Please contact your Empire District Electric Representative.



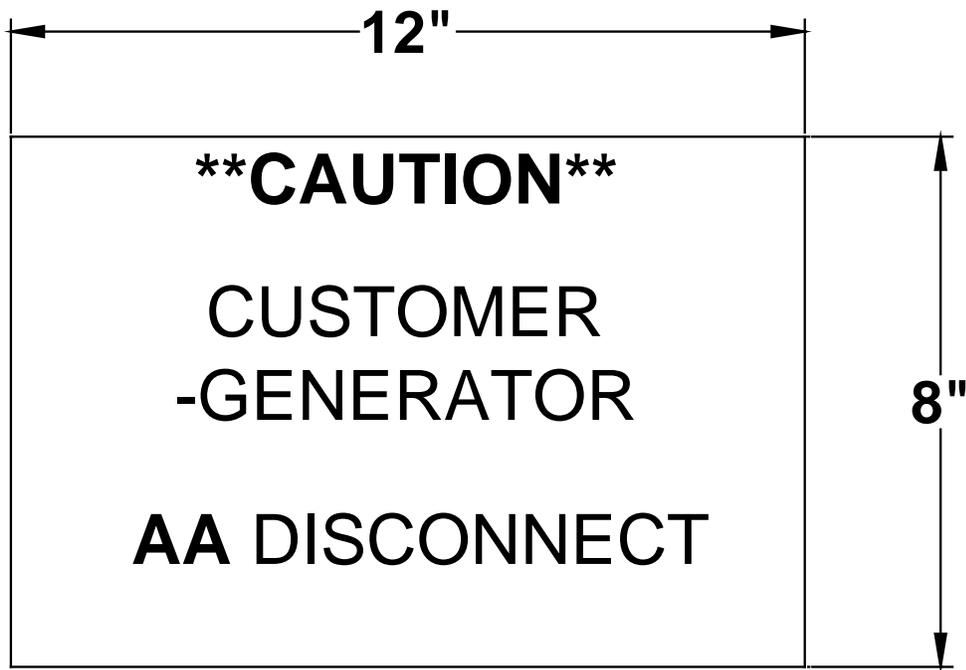
NOTES

1. The sign material shall be an etched laminated plastic. The surface shall be black and the substrate shall be white. This is so specified to have the letters appear as white when they are etched into the plastic.
2. The lettering for the "CAUTION" shall be $\frac{1}{2}$ " tall.
3. All lettering shall be $\frac{1}{4}$ " tall.
4. This placard shall be screwed or bolted externally to the structure as close as practicable to the disconnect. Gluing is not acceptable.
5. The Renewable Energy Type is illustrated by the series of "A"s in the placard diagram above. One of the following abbreviations will be used to describe the source.

PV	Photovoltaic
WG	Wind Generator
HY	Hydroelectric
FC	Fuel Cell

DWG MOD SDS 05/08/2015	THE EMPIRE DISTRICT ELECTRIC CO. JOPLIN, MISSOURI	
	RESIDENTIAL: SWITCH LOCATION PLACARD	
	DWG. NO.	
	DRAWN: SDS	DATE: 12/14/2010
	SCALE: NTS	FIGURE 4

Figure 4: Renewable Generator, Residential Switch Location Placard



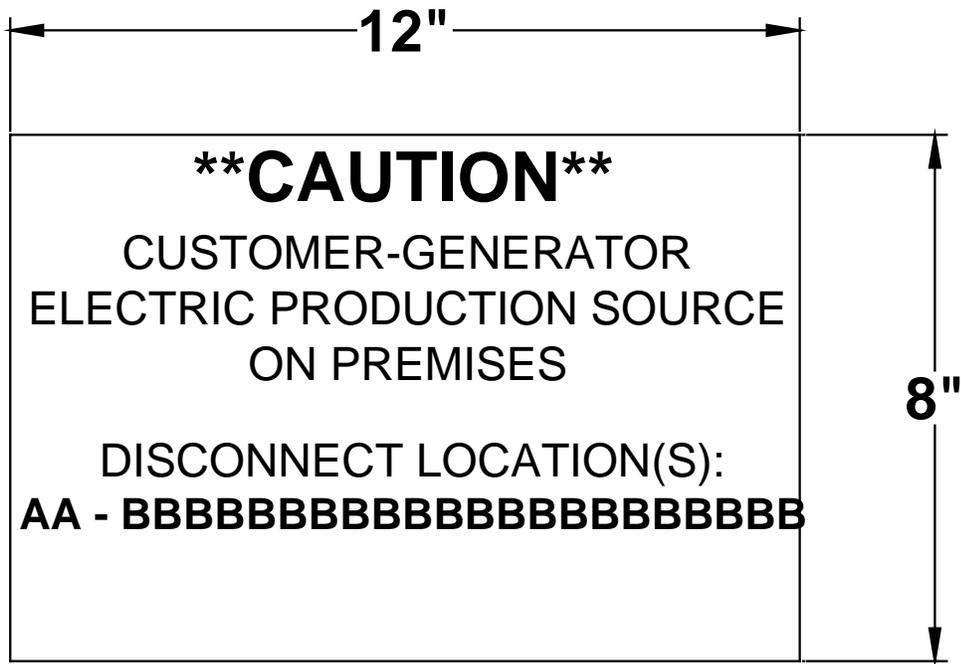
NOTES

1. The sign material shall be an etched laminated plastic. The surface shall be black and the substrate shall be white. This is so specified to have the letters appear as white when they are etched into the plastic.
2. All lettering shall be ¾" tall.
3. This placard shall be screwed or bolted externally to the structure as close as practicable to the disconnect. Gluing is not acceptable.
4. The Renewable Energy Type is illustrated by the series of "A"s in the placard diagram above. One of the following abbreviations will be used to describe the source.

PV	Photovoltaic
WG	Wind Generator
HY	Hydroelectric
FC	Fuel Cell

DWG MOD SDS 04/08/2015	THE EMPIRE DISTRICT ELECTRIC CO. JOPLIN, MISSOURI	
	COMMERCIAL & INDUSTRIAL: SWITCH LOCATION PLACCARD	
	DWG. NO.	
	DRAWN: SDS	DATE: 12/14/2010
	SCALE: NTS	FIGURE 5

Figure 5: Renewable Generator, Commercial & Industrial Switch Location Placard



NOTES

1. The sign material shall be an etched laminated plastic. The surface shall be black and the substrate shall be white. This is so specified to have the letters appear as white when they are etched into the plastic.
2. The lettering for the "CAUTION" shall be 3/4" tall.
3. All other lettering shall be 1/2" tall.
4. This placard shall be screwed or bolted externally to the structure at the meter location. If this service is provided by a Padmount Transformer and the meter is at this point, the placard will be provided to EDE for application to the secondary sided of the transformer door set.
5. The Renewable Energy Type is illustrated by the series of "A"s in the placard diagram above. One of the following abbreviations will be used to describe the source.

PV	Photovoltaic
WG	Wind Generator
HY	Hydroelectric
FC	Fuel Cell
6. The location is illustrated by the series of "B"s in the placard diagram above.
For example: FIRST FLOOR SE CORNER

THE EMPIRE DISTRICT ELECTRIC CO. JOPLIN, MISSOURI	
COMMERCIAL & INDUSTRIAL REMOTE METER AND SWITCH LOCATIONS	
DWG. NO.	
DRAWN: SDS	DATE: 12/14/2010
SCALE: NTS	FIGURE 6

DWG. NO. SDS 05/08/2015
REVISIONS

**Figure 6: Renewable Generator, Commercial & Industrial:
Remote Meter and Switch Location Placard**

Annex A EQUIPMENT LIST

Approved Isolation Switches

Description	Square D	Cutler Hammer	Siemens
NEMA 3R, 2-pole, 240VAC, 30A, non-fusible	DU221RB		
NEMA 3R, 2-pole w/neutral bar, 240VAC, 30A, non-fusible	DU224RB		
NEMA 3R, 2-pole, 240VAC, 60A, non-fusible		DG222URB	
NEMA 3R, 2-pole w/neutral bar, 240VAC, 60A, fusible	D222NRB		
NEMA 3R, 3-pole, 240VAC, 200A, fusible	D324NRB		GF324NR

NOTE – This list will be updated from time to time as new equipment is approved. Check the EDE web site for a complete and up to date list.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 6th Revised Sheet No. 15

Canceling P.S.C. Mo. No. 5 Sec. 4 5th Revised Sheet No. 15

For ALL TERRITORY

NET METERING RIDER
RIDER NM

**INTERCONNECTION APPLICATION /AGREEMENT FOR NET METERING SYSTEMS
WITH CAPACITY OF ONE HUNDRED
KILOWATTS (100 kW) OR LESS**

The Empire District Electric Company
602 South Joplin Avenue
Joplin, Missouri, 64802

For Customers Applying for Interconnection:

If you are interested in applying for interconnection to The Empire District Electric Company's (Empire) electrical system, you should first contact Empire and ask for information related to interconnection of parallel generation equipment to Empire's system and you should understand this information before proceeding with this Application.

If you wish to apply for interconnection to Empire'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 Empire at the address above. Empire will provide notice of approval or denial within thirty (30) days of receipt by Empire for Customer-Generators of ten kilowatts (10 kW) or less and within ninety (90) days of receipt by Empire 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 Empire, it shall become a binding contract and shall govern your relationship with Empire.

**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 Empire for review and completion of section G at the address above. Prior to the interconnection of the qualified generation unit to Empire's system, the Customer-Generator will furnish Empire a certification from a qualified professional electrician or engineer that the installation meets the plans and specification described in the application. If the application for interconnection is approved by Empire 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.

Empire 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 Empire's electrical system within fifteen (15) days of receipt by Empire if electric service already exists to the premises, unless Customer-Generator and Empire 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, Empire will schedule a date for interconnection of the Customer-Generator System to Empire's electrical system no later than fifteen (15) days after service is established to the premises, unless the Customer-Generator and Empire 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 Empire at the address above. Empire will review the new Application/Agreement and shall approve such, within fifteen (15) days of receipt by Empire 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.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 8th Revised Sheet No. 16

Canceling P.S.C. Mo. No. 5 Sec. 4 7th Revised Sheet No. 16

For ALL TERRITORY

NET METERING RIDER
RIDER NM

A. Customer-Generator's Information

Name on Empire Electric Account: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Service/Street Address (if different from above): _____

City: _____ State: _____ Zip Code: _____

Daytime Phone: _____ Fax: _____ E-Mail: _____

Emergency Contact Phone: _____

Empire Account No. (from Utility Bill): _____

If account has multiple meters, provide the meter number to which generation will be connected: _____

B. Customer-Generator's System Information

Manufacturer Nameplate Power Rating: _____ kW AC DC (check box)

Voltage: _____ Volts

System Type: Wind Fuel Cell Solar Thermal Photovoltaic Hydroelectric Other (If other describe on line below)

Inverter/Interconnection Equipment Manufacturer: _____

Inverter/Interconnection Equipment Model No.: _____

Inverter/Interconnection Equipment Location (describe): _____

Outdoor Manual/Utility Accessible & Lockable Disconnect Switch Distance from Meter: _____

Describe the location of the disconnect switch: _____

Disconnect Switch Manufacturer: _____

Disconnect Switch Model: _____

Existing Electrical Service Capacity: _____ Amperes Voltage: _____ Volts

Service Character: Single Phase _____ Three Phase _____

Total capacity of existing Customer-Generator System (if applicable): _____ kW

System Plans, Specifications, and Wiring Diagram must be attached for a valid application.

C. Installation Information / Hardware and Installation Compliance

Company Installing System: _____

Contact Person of Company Installing System: _____ Phone Number: _____

Contractor's License No. (if applicable): _____

Approximate Installation Date: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Daytime Phone: _____ Fax: _____ E-Mail: _____

Person or Agency Who Will Inspect/Certify Installation: _____

The Customer-Generator's proposed System hardware complies with all applicable National Electric Safety Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE), 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 1547. The proposed installation complies with all applicable local electrical codes and all reasonable safety requirements of Empire. The proposed System has a lockable, visible AC disconnect device, accessible at all times to Empire personnel. The System is only required to include one lockable, visible disconnect device, accessible to Empire. 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 Empire's electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when Empire's electrical system is not energized or operating normally. If the proposed System is

DATE OF ISSUE May 5, 2015 DATE EFFECTIVE ~~June 4, 2015~~

ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

May 16, 2015

FILED
Missouri Public
Service Commission
ET-2015-0285; YE-2015-0323

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 3rd Revised Sheet No. 16a

Canceling P.S.C. Mo. No. 5 Sec. 4 2nd Revised Sheet No. 16a

For ALL TERRITORY

NET METERING RIDER
RIDER NM

designed to provide uninterrupted 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 Empire'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 Empire'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 Empire, 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 Empire's electrical system, Empire may immediately disconnect and lock-out the Customer-Generator's System from Empire's electrical system. The Customer-Generator shall permit Empire's employees and inspector's 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 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. 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 and 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 Empire to install additional distribution equipment to accommodate the Customer-Generator's facility, the Customer-Generator shall reimburse Empire for the costs to purchase and install the necessary additional equipment. 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 (RECs)

Except as otherwise provided hereafter, 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 Empire any preferential entitlement to the RECs generated by the Customer-Generator's system. Application and receipt of solar rebate(s) in accordance with Sections H & I of this agreement will include the transfer of RECs to Empire.

5) Energy Pricing and Billing

The net electric energy delivered to the Customer-Generator shall be billed in accordance with Empire's Applicable Rate Schedules (Tariff Schedule NM). The value of the net electric energy delivered by the Customer-Generator to Empire shall be credited in accordance with the net metering rate schedule(s) (Tariff Schedule NM)

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;

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ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

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May 16, 2015

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 1st Revised Sheet No. 16b

Canceling P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 16b

For ALL TERRITORY

NET METERING RIDER
RIDER NM

- (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 customer charges 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 Empire'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 Empire, 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 Empire 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 Empire'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 Empire. 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. Empire 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 the operational control of Customer-Generator's System must file a new Application/Agreement, and must receive authorization from Empire before the existing Customer-Generator System can remain interconnected with Empire'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 Consumer-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, Empire will assess no charges or fees for this transfer. Empire 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. Empire 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 Empire's electrical system. If any changes are planned to be made in 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 Empire 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 Empire 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.

DATE OF ISSUE December 13, 2012
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE January 12, 2013

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 2nd Revised Sheet No. 16c

Canceling P.S.C. Mo. No. 5 Sec. 4 1st Revised Sheet No. 16c

For ALL TERRITORY

NET METERING RIDER
RIDER NM

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 Empire's electrical system. Disconnecting the net metering unit from Empire'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 Empire, shall provide a copy of the test results to Empire. If the Customer-Generator is unable to provide a copy of the test results upon request, Empire 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 Empire, 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 Empire's system. If the Customer-Generator does not provide results of a test to Empire within thirty (30) days of receiving a request from Empire or the results of the test provided to Empire show that the Customer-Generator's net metering unit is not functioning correctly, Empire may immediately disconnect the Customer-Generator's System from Empire's system. The Customer-Generator's System shall not be reconnected to Empire'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 (Customer-Generator): _____ Date: _____

E. Electrical Inspection

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

Inspector Name (Print): _____

Inspector Certification: Licensed Engineer in Missouri _____ Licensed Electrician in Missouri _____

License No. _____ Issuing Authority _____

Signed (Inspector): _____ Date: _____

F. Customer-Generator Acknowledgement

I am aware if 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 Empire'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 Empire'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 Empire's electrical system, I shall disconnect the Customer-Generator System and not reconnect it to Empire's electrical system until the Customer-Generator System is operating normally after repair or inspection. Further, I agree to notify Empire 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 Empire.

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

Signed (Customer-Generator): _____ Date: _____

G. Utility Application Approval (completed by The Empire District Electric Company)

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

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

Empire Representative Name (Print): _____

Signed Empire Representative: _____

DATE OF ISSUE May 5, 2015 DATE EFFECTIVE ~~June 4, 2015~~
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

May 16, 2015

FILED
Missouri Public
Service Commission
ET-2015-0285; YE-2015-0323

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 16d

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

NET METERING RIDER
RIDER NM

MISSOURI SOLAR ELECTRIC REBATE APPLICATION

H. Solar Rebate (For Solar Installations only)

Solar Module Manufacturer: _____ Inverter Rating: _____ kW

Solar Module Model No: _____ Number of Modules/Panels: _____

Module Rating: _____ DC Watts System rating (sum of solar panels): _____ kW

Module Warranty: _____ years (circle on spec. sheet) Inverter Warranty: _____ years (circle on spec. sheet)

Location of modules: _____ Roof _____ Ground

Installation type: _____ Fixed _____ Ballast

System Installation Date: _____

Customer E-mail Address: _____

Customer Contact Phone Number: _____

Solar electric system must be permanently installed on the applicant's premises for a valid application.

Required documents to receive solar rebate (required to be attached for a valid application):

- Copies of detail receipts/invoices with purchase date circled
- Copies of detail spec. sheets on each component
- Copies of proof of warranty sheet (minimum of 10 year warranty)
- Photo(s) of completed system
- Completed Taxpayer Information Form (IRS Form W-9, Request for Taxpayer Identification Number and Certification)

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE ~~June 4, 2015~~

May 16, 2015

FILED
Missouri Public
Service Commission
ET-2015-0285; YE-2015-0323

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 16e

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

NET METERING RIDER
RIDER NM

I. Solar Rebate Declaration (For Solar Installations only)

I understand that the complete terms and conditions of the solar rebate program are included in the Company's Rider SR – Solar Rebate tariff.

I understand that this program has limited budget, and that application will be accepted on a first-come, first-served basis, while funds are available. It is possible that I may be notified that I have been placed on a waiting list for the next year's rebate program if funds run out for the current year. This program may be modified or discontinued at any time without notice from the Company.

I understand that the solar electric system must be permanently installed and remain in place on premises for the duration of its useful life – a minimum often (10) years, and the system shall be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the system.

I understand the equipment must be new when installed, commercially available, and carry a minimum ten (10) year warranty.

I understand a rebate may be available from the Company on expanded or new solar electric systems that become operational after 12/31/2009. The applicable rebate rate and additional details and requirements can be found in the Company's Rider SR – Solar Rebate.

I understand the DC wattage rating provided by the original manufacturer and as noted in Section H will be used to determine the rebate amount.

I understand if my rebate is six hundred dollars (\$600) or more I will receive a Form 1099. (Please consult your tax advisor with any questions.)

I understand that as a condition of receiving a solar rebate, I am transferring to Company all right, title and interest in and to the solar renewable energy credits (SRECs) associated with the new or expanded System that qualified for the solar rebate and that **the SRECs cannot be sold or promised for sale to any other party or used by customer for any environmental or "green" program for a period of ten (10) years** from the date the Company confirmed that that System was installed and operational.

(NOTE: Confirmation by the Company that the System was installed and operational does not constitute any warranty or guaranty of fitness for a particular use. The Empire District Electric Company expressly disclaims any and all warranties or conditions of merchantability and fitness for a particular purpose in connection with the customer's solar electric system. The customer is solely responsible for determining the appropriateness of using a qualifying solar electric system, including but not limited to the risk of system operational errors, damage to or loss of property, and unavailability or interruption of System operations. The Empire District Electric Company will not be liable for any direct damages or for any special, incidental, or indirect damages or for any economic consequential damages. The Empire District Electric Company will not be liable for any damages claimed based on a third party claim.)

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE ~~June 4, 2015~~

May 16, 2015

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 16f

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

NET METERING RIDER
RIDER NM

The undersigned warrants, certifies, and represents that the information provided in this form is true and correct to the best of my knowledge; and the installation meets all Missouri Net Metering and Solar Electric Rebate program requirements.

Print Name of Applicant

Print Installer's Name

Applicant's Signature

Installer's Signature

If Applicant is a Business, Print Title/Authority of
Person Signing on behalf of Applicant

Date

Date

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE ~~June 4, 2015~~
May 16, 2015

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23f

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

MISSOURI SOLAR ELECTRIC REBATE APPLICATION

A. Solar Rebate (For Solar Installations only)

Solar Module Manufacturer: _____ Inverter Rating: _____ kW

Solar Module Model No: _____ Number of Modules/Panels: _____

Module Rating: _____ DC Watts System rating (sum of solar panels: _____ kW

Module Warranty: _____ years (circle on spec. sheet) Inverter Warranty: _____ years (circle on spec. sheet)

Location of modules: _____ Roof _____ Ground

Installation type: _____ Fixed _____ Ballast

System Installation Date: _____

Customer E-mail Address: _____

Customer Contact Phone Number: _____

Solar electric system must be permanently installed on the applicant's premises for a valid application.

Required documents to receive solar rebate (required to be attached for a valid application):

- Copies of detail receipts/invoices with purchase date circled
- Copies of detail spec. sheets on each component
- Copies of proof of warranty sheet (minimum of 10 year warranty)
- Photo(s) of completed system
- Completed Taxpayer Information Form (IRS Form W-9, Request for Taxpayer Identification Number and Certification)

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE May 16, 2015

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23g

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

B. Solar Rebate Declaration (For Solar Installations only)

I understand that the complete terms and conditions of the solar rebate program are included in the Company's Rider SR – Solar Rebate tariff.

I understand that this program has limited budget, and that application will be accepted on a first-come, first-served basis, while funds are available. It is possible that I may be notified that I have been placed on a waiting list for the next year's rebate program if funds run out for the current year. This program may be modified or discontinued at any time without notice from the Company.

I understand that the solar electric system must be permanently installed and remain in place on premises for the duration of its useful life – a minimum often (10) years, and the system shall be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the system.

I understand the equipment must be new when installed, commercially available, and carry a minimum ten (10) year warranty.

I understand a rebate may be available from the Company on expanded or new solar electric systems that become operational after 12/31/2009. The applicable rebate rate and additional details and requirements can be found in the Company's Rider SR – Solar Rebate.

I understand the DC wattage rating provided by the original manufacturer and as noted in Section H will be used to determine the rebate amount.

I understand if my rebate is six hundred dollars (\$600) or more I will receive a Form 1099. (Please consult your tax advisor with any questions.)

I understand that as a condition of receiving a solar rebate, I am transferring to Company all right, title and interest in and to the solar renewable energy credits (SRECs) associated with the new or expanded System that qualified for the solar rebate and that **the SRECs cannot be sold or promised for sale to any other party or used by customer for any environmental or "green" program for a period of ten (10) years** from the date the I receive the solar rebate.

(NOTE: Confirmation by the Company that the System was installed and operational does not constitute any warranty or guaranty of fitness for a particular use. The Empire District Electric Company expressly disclaims any and all warranties or conditions of merchantability and fitness for a particular purpose in connection with the customer's solar electric system. The customer is solely responsible for determining the appropriateness of using a qualifying solar electric system, including but not limited to the risk of system operational errors, damage to or loss of property, and unavailability or interruption of System operations. The Empire District Electric Company will not be liable for any direct damages or for any special, incidental, or indirect damages or for any economic consequential damages. The Empire District Electric Company will not be liable for any damages claimed based on a third party claim.)

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE May 16, 2015

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23h

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER RIDER SR

The undersigned warrants, certifies, and represents that the information provided in this form is true and correct to the best of my knowledge; and the installation meets all Missouri Net Metering and Solar Electric Rebate program requirements.

Print Name of Applicant

Print Installer's Name

Applicant's Signature

Installer's Signature

If Applicant is a Business, Print Title/Authority of
Person Signing on behalf of Applicant

Date

Date

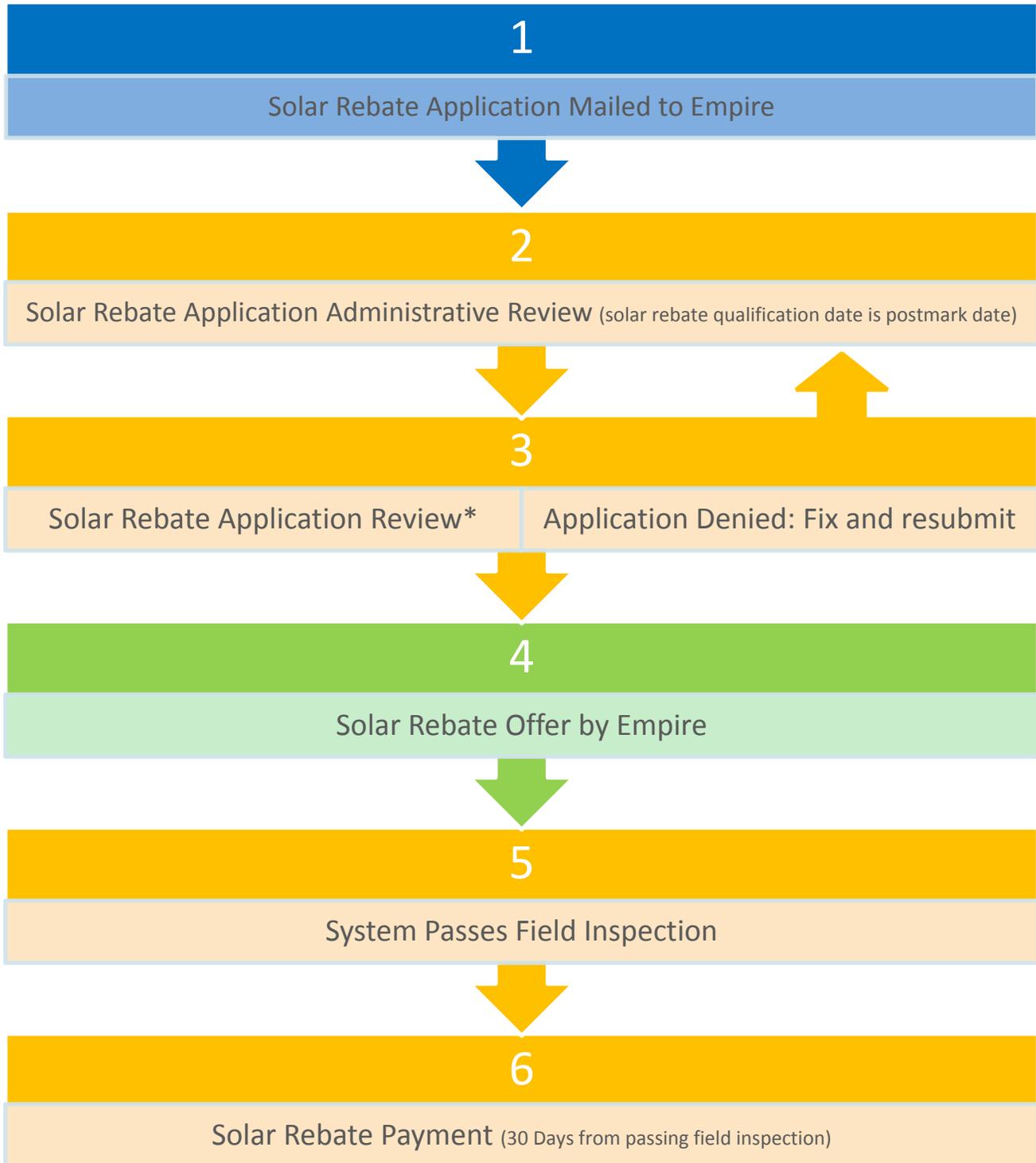
MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

DATE OF ISSUE May 5, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE May 16, 2015

Solar Rebate Process

Existing Net Metering Customer



Customer Action



Empire Action



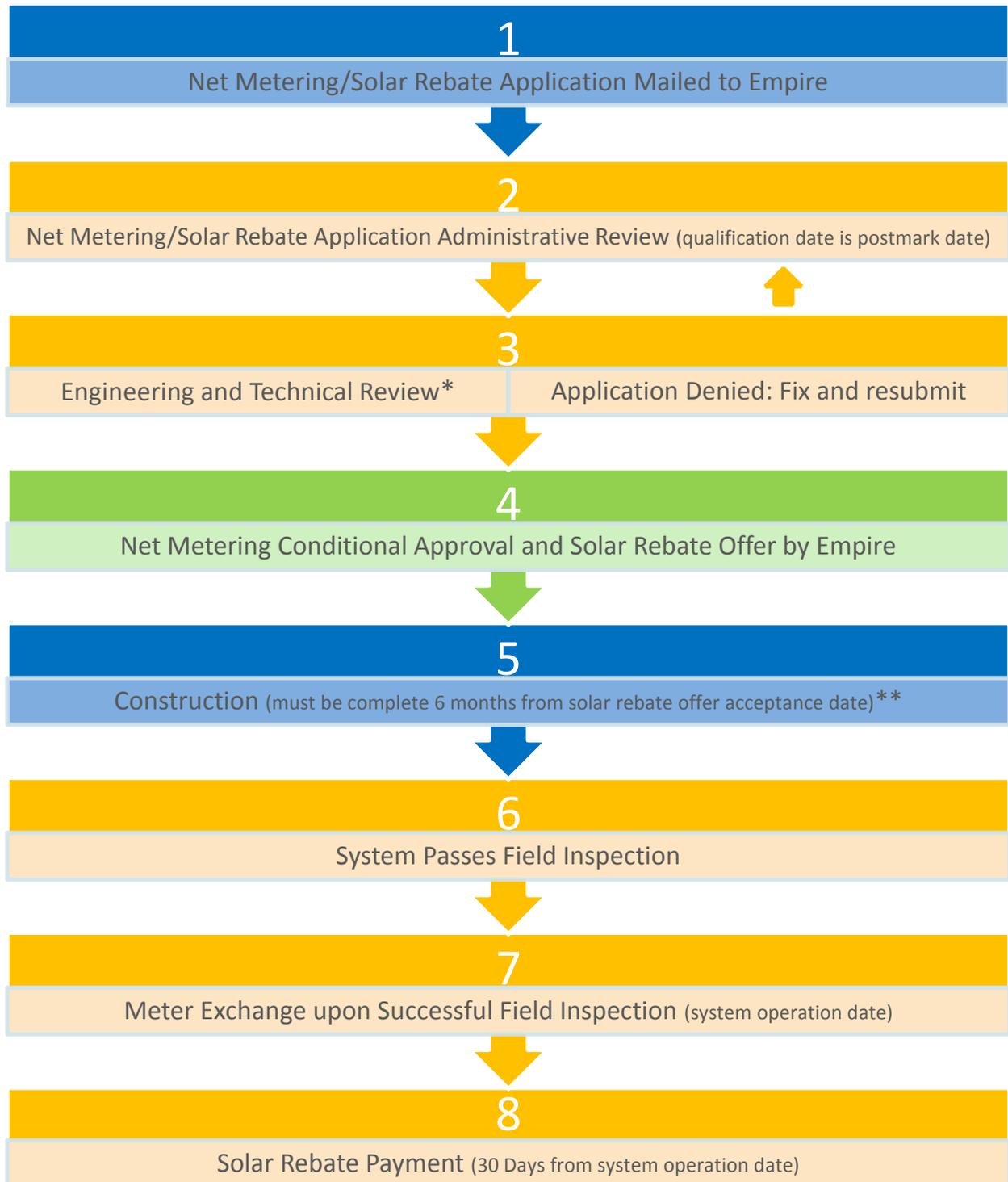
Rebate Determination Point

*Systems with 10kW or less are reviewed in 30 days or less from the solar rebate application receipt date.
Systems over 10kW are reviewed in 90 days or less from the solar rebate application receipt date.

1. Solar rebate application received.
2. The administrative review will include verification that all required documents are submitted, including that the customer is an active customer with a valid net metering agreement on file with the Company. If the application is denied, customer will have an opportunity to correct and resubmit the initial application within 5 days of notice of denial without losing their place in the solar rebate offer queue.
3. Upon administrative approval of the solar rebate application, Empire will e-mail a letter of conditional approval accepting the solar rebate application and extending a solar rebate offer, if funds are available. This will be considered the solar rebate offer acceptance date unless the customer notifies Empire within one week that the offer is not accepted.
4. Upon customer acceptance of solar rebate offer, customer should request a field inspection from Empire by responding to the email notification that the solar rebate application was conditionally approved. Empire will contact customer to schedule a field inspection within 15 days unless customer and Empire mutually agree otherwise.
5. Upon successful field inspection, Empire will declare solar rebate application as final. This date is the "System Operational Date" which is the day the solar rebate payment begins processing.
6. Solar rebate payments will be paid on a first come, first served basis determined by the application date, and will be paid within 30 days from the date of the successful field inspection.

Solar Rebate Process

New Net Metering Customer



 Customer Action

 Empire Action

 Rebate Determination Point

*Systems with 10kW or less are reviewed in 30 days or less from the net metering application receipt date.
Systems over 10kW are reviewed in 90 days or less from the net metering application receipt date.

**Customer may request a six month extension – must show substantial progress toward completion

1. Net metering and solar rebate applications mailed to Empire.
2. Net metering/solar rebate application administrative review commences, which designates the solar rebate qualification date.
3. Following administrative approval, the application proceeds to engineering and technical review. If the application is denied, customer will have an opportunity to correct and resubmit the initial application within 5 days of notice of denial without losing their place in the solar rebate offer queue.
4. Upon administrative and engineering approval of the net metering application, Empire will e-mail a letter of conditional approval accepting the net metering application and extending a solar rebate offer, if funds are available. This will be considered the solar rebate offer acceptance date unless the customer notifies Empire within one week that the offer is not accepted.
5. Customers have six months from the solar rebate offer acceptance date to complete construction. An additional six months may be made available if the customer can prove significant progress toward completion.
6. When construction is complete, customer will request a field inspection from Empire by responding to the email notification sent in step 4. Empire will contact customer to schedule a field inspection within 15 days unless customer and Empire mutually agree otherwise.
7. Empire will perform the meter exchange at the completion of a successful field inspection. The meter exchange date is the "System Operational Date" which is the day the solar rebate payment begins processing. This is also the final approval of the net metering application.
8. Solar rebate payments will be paid on a first come, first served basis determined by the application date, and will be paid within 30 days from the System Operational Date.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 5th Revised Sheet No. 12

Canceling P.S.C. Mo. No. 5 Sec. 4 4th Revised Sheet No. 12

For ALL TERRITORY

NET METERING RIDER RIDER NM

AVAILABILITY:

Electric service is available under this schedule at points on the Company's existing distribution facilities located within its service area for customers operating renewable fuel source generators.

Applicable to Customer-Generators with a Company approved interconnection agreement. This schedule is not applicable where the Customer's electrical generating system exceeds 100 kW.

The net metering service shall be available to Customer-Generators on a first-come, first-serve basis until the total rated generating capacity of net metering systems equals 5% of the Company's single-hour peak load during the previous year. Resale electric service will not be supplied under this schedule.

DEFINITIONS:

Customer-Generator:

The owner of a qualified electric energy generation unit which:

- a. Is powered by a renewable energy resource;
- b. Has an electrical generating system with a capacity of not more than one hundred kilowatts;
- c. Is located on a premises owned, operated, leased, or otherwise controlled by the Customer-Generator;
- d. Is interconnected and operated in parallel phase and synchronization with the Company;
- e. Is intended primarily to offset part or all of the Customer-Generator's own electrical energy requirements;
- f. Meets all applicable safety, performance, interconnection, and reliability standards established by the National Electrical Code, the National Electrical Safety Code, the Institute of Electrical and Electronic Engineers and any local governing authorities; and
- g. Contains a mechanism that automatically disables the unit and interrupts the flow of electricity back onto the Company's electricity lines in the event that the service to the Customer-Generator is interrupted.

Renewable Energy Resources:

Electrical energy produced from wind, solar thermal sources, hydroelectric sources, photovoltaic cells and panels, fuel cells using hydrogen produced by ones of the above-named electrical energy sources, and other sources of energy that become available, and are certified as renewable by the Missouri Department of Natural Resources.

CHARACTER OF SERVICE:

Alternating current, 60 cycles, at the voltage and phase of the Company's established secondary distribution system serving the Customer-Generator's premise.

BILLING AND PAYMENT:

The Company shall render a bill for net consumption at approximately 30-day intervals based on the Company's regular tariff schedules as on file with the Missouri Public Service Commission. Net consumption is defined as the kWh supplied by the Company to the Customer-Generator minus kWh supplied by the Customer-Generator and returned to the Company's grid during the billing month. Any net consumption shall be valued monthly as follows:

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 10th Revised Sheet No. 13

Canceling P.S.C. Mo. No. 5 Sec. 4 9th Revised Sheet No. 13

For ALL TERRITORY

NET METERING RIDER
RIDER NM

BILLING AND PAYMENT (continued):

To the extent the net consumption is positive (i.e. Customer-Generator took more kWh from the Company during the month than Customer-Generator produced), the eligible Customer-Generator will be billed in accordance with the Customer-Generator's otherwise applicable standard rate for Customer Charges, Demand Charges, and Energy Charges (for the net consumption).

To the extent the net consumption is negative (i.e. Customer-Generator produced more kWh during the month than the Company supplied), the Customer-Generator will be credited in accordance with the Company's bi-annually calculated avoided fuel cost of the net energy (kWh) delivered to the Company. With the exception of the Energy Charge, all other applicable standard rate charges shall apply.

PURCHASED RATE:

Summer Season, per kWh.....	\$	0.0449
Winter Season, per kWh.....	\$	0.0355

The Summer Season will be the four months of June through September, and the Winter Season will be the eight months of October through May.

To the extent the net consumption is zero (i.e. Customer-Generator produced the same kWh during the month as supplied by the Company), the Customer-Generator will be Minimum billed in accordance with the eligible Customer-Generator's otherwise applicable standard rate.

TERMS AND CONDITIONS:

1. The Company will supply, own and maintain all necessary meters and associated equipment utilized for billing. If the Company's metering equipment at the Customer Generator's premise does not have the capability of measuring both the net energy produced and the net energy consumed, the Customer shall reimburse the Company for the cost to purchase and install sufficient metering. In addition, and for purposes of monitoring Customer generation and load, the Company may install at its expense, load research metering. The Customer shall supply, at no expense to the Company, a suitable location for meters and associated equipment used for billing and for load research. Such equipment shall be accessible at all times to Company personnel.
2. The Company shall have the right to require the Customer, at certain times and as electric operating conditions warrant, to limit the production of electrical energy from the generating facility to an amount no greater than the load at the Customer's facility of which the generating facility is a part.
3. The Customer shall furnish, install, operate and maintain in good order and repair without cost to the Company such relays, locks and seals, breakers, automatic synchronizers, disconnecting devices, and other control and protective devices as required by the NEC, NESC, IEEE or UL as being required as suitable for the operation of the generator in parallel with the Company's system.
4. The disconnect switch shall be under the exclusive control of the Company. The manual switch must have the capability to be locked out by Company personnel to isolate the Company's facilities in the event of an electrical outage on the Company's transmission and distribution facilities serving the Customer. This isolating device shall also serve as a means of isolation for the Customer's equipment during any customer maintenance activities, routine outages or emergencies. The Company shall give notice to the Customer before a manual switch is locked or an isolating device is used, if possible; and otherwise shall give notice as soon as practicable after locking or isolating the Customer's facilities.
5. The Customer may be required to reimburse the Company for any equipment or facilities required solely as a result of the installation by the Customer of generation in parallel with the Company's Service. This requirement is limited to equipment or facilities installed by the Company in excess of those required of the Company by the NEC, NESC, IEEE or UL.
6. The Customer shall notify the Company prior to the initial energizing and start-up testing of the Customer-owned generator, and the Company shall have the right to have a representative present at said test.

DATE OF ISSUE January 15, 2015 DATE EFFECTIVE February 14, 2015
ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 4th Revised Sheet No. 14

Canceling P.S.C. Mo. No. 5 Sec. 4 3rd Revised Sheet No. 14

For ALL TERRITORY

NET METERING RIDER
RIDER NM

TERMS AND CONDITIONS (continued):

7. If harmonics, voltage fluctuations, or other disruptive problems on the utility's system are directly attributable to the operation of the Customer's system, such program(s) shall be corrected at the Customer's expense.
8. No Customer's generating system shall damage the Company's system or equipment or present an undue hazard to Company personnel.
9. The Company requires an Interconnection Application/Agreement for net metering (see copy below) for conditions related to technical and safety aspects of parallel generation.
10. Service under this schedule is subject to the Company's Rules and Regulations on file with the Missouri Public Service Commission and any subsequently approved and in effect during the term of this service.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 6th Revised Sheet No. 15

Canceling P.S.C. Mo. No. 5 Sec. 4 5th Revised Sheet No. 15

For ALL TERRITORY

NET METERING RIDER
RIDER NM

**INTERCONNECTION APPLICATION /AGREEMENT FOR NET METERING SYSTEMS
WITH CAPACITY OF ONE HUNDRED
KILOWATTS (100 kW) OR LESS**

The Empire District Electric Company
602 South Joplin Avenue
Joplin, Missouri, 64802

For Customers Applying for Interconnection:

If you are interested in applying for interconnection to The Empire District Electric Company's (Empire) electrical system, you should first contact Empire and ask for information related to interconnection of parallel generation equipment to Empire's system and you should understand this information before proceeding with this Application.

If you wish to apply for interconnection to Empire'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 Empire at the address above. Empire will provide notice of approval or denial within thirty (30) days of receipt by Empire for Customer-Generators of ten kilowatts (10 kW) or less and within ninety (90) days of receipt by Empire 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 Empire, it shall become a binding contract and shall govern your relationship with Empire.

**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 Empire for review and completion of section G at the address above. Prior to the interconnection of the qualified generation unit to Empire's system, the Customer-Generator will furnish Empire a certification from a qualified professional electrician or engineer that the installation meets the plans and specification described in the application. If the application for interconnection is approved by Empire 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.

Empire 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 Empire's electrical system within fifteen (15) days of receipt by Empire if electric service already exists to the premises, unless Customer-Generator and Empire 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, Empire will schedule a date for interconnection of the Customer-Generator System to Empire's electrical system no later than fifteen (15) days after service is established to the premises, unless the Customer-Generator and Empire 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 Empire at the address above. Empire will review the new Application/Agreement and shall approve such, within fifteen (15) days of receipt by Empire 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.

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 8th Revised Sheet No. 16

Canceling P.S.C. Mo. No. 5 Sec. 4 7th Revised Sheet No. 16

For ALL TERRITORY

NET METERING RIDER
RIDER NM

A. Customer-Generator's Information

Name on Empire Electric Account: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Service/Street Address (if different from above): _____

City: _____ State: _____ Zip Code: _____

Daytime Phone: _____ Fax: _____ E-Mail: _____

Emergency Contact Phone: _____

Empire Account No. (from Utility Bill): _____

If account has multiple meters, provide the meter number to which generation will be connected: _____

B. Customer-Generator's System Information

Manufacturer Nameplate Power Rating: _____ kW AC DC (check box)

Voltage: _____ Volts

System Type: Wind Fuel Cell Solar Thermal Photovoltaic Hydroelectric Other (If other describe on line below)

Inverter/Interconnection Equipment Manufacturer: _____

Inverter/Interconnection Equipment Model No.: _____

Inverter/Interconnection Equipment Location (describe): _____

Outdoor Manual/Utility Accessible & Lockable Disconnect Switch Distance from Meter: _____

Describe the location of the disconnect switch: _____

Disconnect Switch Manufacturer: _____

Disconnect Switch Model: _____

Existing Electrical Service Capacity: _____ Amperes Voltage: _____ Volts

Service Character: Single Phase _____ Three Phase _____

Total capacity of existing Customer-Generator System (if applicable): _____ kW

System Plans, Specifications, and Wiring Diagram must be attached for a valid application.

C. Installation Information / Hardware and Installation Compliance

Company Installing System: _____

Contact Person of Company Installing System: _____ Phone Number: _____

Contractor's License No. (if applicable): _____

Approximate Installation Date: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Daytime Phone: _____ Fax: _____ E-Mail: _____

Person or Agency Who Will Inspect/Certify Installation: _____

The Customer-Generator's proposed System hardware complies with all applicable National Electric Safety Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE), 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 1547. The proposed installation complies with all applicable local electrical codes and all reasonable safety requirements of Empire. The proposed System has a lockable, visible AC disconnect device, accessible at all times to Empire personnel. The System is only required to include one lockable, visible disconnect device, accessible to Empire. 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 Empire's electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when Empire's electrical system is not energized or operating normally. If the proposed System is

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 3rd Revised Sheet No. 16a

Canceling P.S.C. Mo. No. 5 Sec. 4 2nd Revised Sheet No. 16a

For ALL TERRITORY

NET METERING RIDER
RIDER NM

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 Empire'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 Empire'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 Empire, 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 Empire's electrical system, Empire may immediately disconnect and lock-out the Customer-Generator's System from Empire's electrical system. The Customer-Generator shall permit Empire's employees and inspector's 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 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. 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 and 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 Empire to install additional distribution equipment to accommodate the Customer-Generator's facility, the Customer-Generator shall reimburse Empire for the costs to purchase and install the necessary additional equipment. 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 (RECs)

Except as otherwise provided hereafter, 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 Empire any preferential entitlement to the RECs generated by the Customer-Generator's system. Application and receipt of solar rebate(s) in accordance with Sections H & I of this agreement will include the transfer of RECs to Empire.

5) Energy Pricing and Billing

The net electric energy delivered to the Customer-Generator shall be billed in accordance with Empire's Applicable Rate Schedules (Tariff Schedule NM). The value of the net electric energy delivered by the Customer-Generator to Empire shall be credited in accordance with the net metering rate schedule(s) (Tariff Schedule NM)

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;

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THE EMPIRE DISTRICT ELECTRIC COMPANY

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For ALL TERRITORY

NET METERING RIDER
RIDER NM

- (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 customer charges 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 Empire'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 Empire, 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 Empire 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 Empire'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 Empire. 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. Empire 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 the operational control of Customer-Generator's System must file a new Application/Agreement, and must receive authorization from Empire before the existing Customer-Generator System can remain interconnected with Empire'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 Consumer-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, Empire will assess no charges or fees for this transfer. Empire 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. Empire 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 Empire's electrical system. If any changes are planned to be made in 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 Empire 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 Empire 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.

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ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE January 12, 2013

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 2nd Revised Sheet No. 16c

Canceling P.S.C. Mo. No. 5 Sec. 4 1st Revised Sheet No. 16c

For ALL TERRITORY

NET METERING RIDER
RIDER NM

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 Empire's electrical system. Disconnecting the net metering unit from Empire'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 Empire, shall provide a copy of the test results to Empire. If the Customer-Generator is unable to provide a copy of the test results upon request, Empire 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 Empire, 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 Empire's system. If the Customer-Generator does not provide results of a test to Empire within thirty (30) days of receiving a request from Empire or the results of the test provided to Empire show that the Customer-Generator's net metering unit is not functioning correctly, Empire may immediately disconnect the Customer-Generator's System from Empire's system. The Customer-Generator's System shall not be reconnected to Empire'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 (Customer-Generator): _____ Date: _____

E. Electrical Inspection

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

Inspector Name (Print): _____

Inspector Certification: Licensed Engineer in Missouri _____ Licensed Electrician in Missouri _____

License No. _____ Issuing Authority _____

Signed (Inspector): _____ Date: _____

F. Customer-Generator Acknowledgement

I am aware if 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 Empire'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 Empire'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 Empire's electrical system, I shall disconnect the Customer-Generator System and not reconnect it to Empire's electrical system until the Customer-Generator System is operating normally after repair or inspection. Further, I agree to notify Empire 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 Empire.

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

Signed (Customer-Generator): _____ Date: _____

G. Utility Application Approval (completed by The Empire District Electric Company)

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

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

Empire Representative Name (Print): _____

Signed Empire Representative: _____

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Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

NET METERING RIDER
RIDER NM

MISSOURI SOLAR ELECTRIC REBATE APPLICATION

H. Solar Rebate (For Solar Installations only)

Solar Module Manufacturer: _____ Inverter Rating: _____ kW

Solar Module Model No: _____ Number of Modules/Panels: _____

Module Rating: _____ DC Watts System rating (sum of solar panels: _____ kW

Module Warranty: _____ years (circle on spec. sheet) Inverter Warranty: _____ years (circle on spec. sheet)

Location of modules: _____ Roof _____ Ground

Installation type: _____ Fixed _____ Ballast

System Installation Date: _____

Customer E-mail Address: _____

Customer Contact Phone Number: _____

Solar electric system must be permanently installed on the applicant's premises for a valid application.

Required documents to receive solar rebate (required to be attached for a valid application):

- Copies of detail receipts/invoices with purchase date circled
- Copies of detail spec. sheets on each component
- Copies of proof of warranty sheet (minimum of 10 year warranty)
- Photo(s) of completed system
- Completed Taxpayer Information Form (IRS Form W-9, Request for Taxpayer Identification Number and Certification)

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 16e

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

NET METERING RIDER
RIDER NM

I. Solar Rebate Declaration (For Solar Installations only)

I understand that the complete terms and conditions of the solar rebate program are included in the Company's Rider SR – Solar Rebate tariff.

I understand that this program has limited budget, and that application will be accepted on a first-come, first-served basis, while funds are available. It is possible that I may be notified that I have been placed on a waiting list for the next year's rebate program if funds run out for the current year. This program may be modified or discontinued at any time without notice from the Company.

I understand that the solar electric system must be permanently installed and remain in place on premises for the duration of its useful life – a minimum often (10) years, and the system shall be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the system.

I understand the equipment must be new when installed, commercially available, and carry a minimum ten (10) year warranty.

I understand a rebate may be available from the Company on expanded or new solar electric systems that become operational after 12/31/2009. The applicable rebate rate and additional details and requirements can be found in the Company's Rider SR – Solar Rebate.

I understand the DC wattage rating provided by the original manufacturer and as noted in Section H will be used to determine the rebate amount.

I understand if my rebate is six hundred dollars (\$600) or more I will receive a Form 1099. (Please consult your tax advisor with any questions.)

I understand that as a condition of receiving a solar rebate, I am transferring to Company all right, title and interest in and to the solar renewable energy credits (SRECs) associated with the new or expanded System that qualified for the solar rebate and that **the SRECs cannot be sold or promised for sale to any other party or used by customer for any environmental or "green" program for a period of ten (10) years** from the date the Company confirmed that that System was installed and operational.

(NOTE: Confirmation by the Company that the System was installed and operational does not constitute any warranty or guaranty of fitness for a particular use. The Empire District Electric Company expressly disclaims any and all warranties or conditions of merchantability and fitness for a particular purpose in connection with the customer's solar electric system. The customer is solely responsible for determining the appropriateness of using a qualifying solar electric system, including but not limited to the risk of system operational errors, damage to or loss of property, and unavailability or interruption of System operations. The Empire District Electric Company will not be liable for any direct damages or for any special, incidental, or indirect damages or for any economic consequential damages. The Empire District Electric Company will not be liable for any damages claimed based on a third party claim.)

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 16f

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

NET METERING RIDER
RIDER NM

The undersigned warrants, certifies, and represents that the information provided in this form is true and correct to the best of my knowledge; and the installation meets all Missouri Net Metering and Solar Electric Rebate program requirements.

Print Name of Applicant

Print Installer's Name

Applicant's Signature

Installer's Signature

If Applicant is a Business, Print Title/Authority of
Person Signing on behalf of Applicant

Date

Date

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

PURPOSE:

The purpose of this Rider SR is to implement the solar rebate established through §393.1030 RSMo. and to establish the terms, conditions and procedures, consistent with applicable law and MoPSC orders and rules, which the Company will rely on in accepting rebate applications, authorizing rebate payments to eligible participants for a qualifying solar electric system ("System"), and the handling of solar renewable energy credits ("SRECs") associated with the new or expanded System.

AVAILABILITY:

Subject to the Retail Rate Impact limitations set forth in 4 CSR 240-20.100(5) and §393.1030 RSMo., all Missouri retail electric customers of the Company who install, own, operate and maintain a solar electric generation system in parallel with the Company's service in accordance with the following limitations and conditions are eligible for the solar rebate:

1. The customer must have a completed and approved Net Metering Application and Agreement on file with the Company in accordance with the Company's Net Metering Rider, Rider NM.
2. The customer must be an active account on the Company's system and in good payment standing.
3. The System must be permanently installed on the customer's premise.
4. The customer must declare the installed System will remain in place on the account holder's premise for the duration of its useful life which shall be deemed to be a minimum of ten (10) years.
5. The solar modules and inverters shall be new equipment and include a manufacturer's warranty of ten (10) years.
6. No retail electric account will be eligible for a solar rebate for more than twenty-five kilowatts (25 kW) of new or expanded new capacity irrespective of the number of meters/service points associated with the account holder.
7. The System shall meet all requirements of 4 CSR 240-20.065 and the Company's Net Metering Rider, Rider NM.
8. The System must be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the System.
9. The customer must execute an affidavit for Company's use in complying with §393.1030 RSMo. The affidavit can be obtained from Company's website www.empiredistrict.com.
10. The system or expansion of an existing system must become operational after December 31, 2009, and must become operational on or before June 30, 2020.

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THE EMPIRE DISTRICT ELECTRIC COMPANY

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Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER RIDER SR

DEFINITIONS:

APPLICATION REQUIREMENTS:

All Net Metering Application and Solar Rebate Application information necessary to receive an approval from the Company. These applications are available on the Company's website www.empiredistrict.com and must be provided to the Company including, but not limited to, accurate account number, name and service address matching customer billing information, all of the Net Metering Application, all fields of Solar Rebate Application except the "System Installation Date," customer and developer signatures, System plans, specifications, warranties and wiring diagram.

COMPLETION REQUIREMENTS:

All System installation and final documentation requirements as defined on the Company's website www.empiredistrict.com provided to the Company including, but not limited to, the System installation date, all required signatures, approval of the local inspection authority having jurisdiction (if applicable), copies of detailed receipts and invoices, System photo(s), taxpayer information form (if applicable), and affidavit.

NET METERING APPLICATION:

Section A. through Section D. of an "INTERCONNECTION APPLICATION / AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF ONE HUNDRED KILOWATTS (100 kW) OR LESS", an integral part of the Company's Net Metering Rider, Rider NM, which can be obtained from the Company's website www.empiredistrict.com.

OPERATIONAL DATE:

The date that the Company installs a meter or meters capable of determining net energy consumption and permits parallel operation of the System with the Company's electrical distribution system in accordance with the Company's "Net Metering Rider, Rider NM" tariff.

QUALIFICATION DATE:

The date that determines a customer's relative position in the Reservation Queue.

REBATE COMMITMENT:

The Company's written communication to customer, by letter or email, confirming that solar rebate funding is available for a Solar Rebate Application submitted by customer.

RESERVATION QUEUE:

The list of all complete Net Metering Applications that have been received by the Company which have not expired and have not been paid a Solar Rebate.

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23b

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

SOLAR REBATE APPLICATION:

For the customer's convenience, the Solar Rebate Application is located in two (2) places: Section H. and Section I. of an "INTERCONNECTION APPLICATION/AGREEMENT FOR NET METERING SYSTEMS WITH CAPACITY OF ONE HUNDRED KILOWATTS (100 kW) OR LESS", an integral part of the Company's Net Metering Rider, Rider NM; and Section A. and Section B. of the "MISSOURI SOLAR ELECTRIC REBATE APPLICATION", an integral part of the Company's Solar Rebate Rider, Rider SR – both of which can be obtained from the Company's website www.empiredistrict.com.

SYSTEM:

Qualifying solar electric system.

REBATE RATE SCHEDULE:

Subject to the Availability provisions of this Rider SR, complete and accurate Solar Rebate Applications received by the Company or postmarked on or before December 31st of any year, and for which the System becomes operational on or before June 30th of the following year, will be eligible for a solar rebate according to the following schedule:

Application Received on or before December 31 st of the Year	Operation Status Achieved on or before June 30 th of the Year	Rebate Rate per Watt
2015	2014	\$2.00
2015	2015	\$1.50
2015	2016	\$1.00
2016-2018	2017-2019	\$0.50
2019	2020	\$0.25

If a customer has satisfied all of the System Completion Requirements by June 30th of an indicated year, but the Company is not able to complete all of the Company's steps needed to establish an Operational Date on or before June 30th, the Rebate Rate will be determined as though the Operational Date was June 30th. If it is subsequently determined that the customer or the System did not satisfy all Completion Requirements required of the customer on or before June 30th of the indicated year, the Rebate Rate will be determined based on the Operational Date.

RESERVATION QUEUE:

The Company will establish a Reservation Queue for solar rebate payments based on the System Qualification Dates. A customer, and their developer (if applicable), whose Net Metering Application and Solar Rebate Application are conditionally approved pending field commissioning safety test will be notified in writing, by letter or email, that either:

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23c

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

1. Solar rebate funds have been committed for their System, subject to the Qualification Date not changing and the commitment not expiring; or
2. Solar rebate funds cannot be guaranteed for their System. The Company will use the following notice in this event:

“Empire cannot guarantee solar rebate funds for your System. Empire has filed its sixty-day notice of reaching its annual retail rate impact limit pursuant to Section 393.1030, RSMo. You may still receive a solar rebate if: a) the Public Service Commission determines that Empire has not yet met its annual retail rate impact limit; b) additional rebates become available due to other qualified solar systems dropping out of the reservation queue; or c) additional rebates become available at the start of the next calendar year.”

At least monthly, the Company will notify in writing, by letter or email, those customers and their developers that did not receive a Rebate Commitment but for which a Rebate Commitment is now being made as a result of other Systems that have dropped out of the Reservation Queue. Details concerning the Reservation Queue are posted on the Company website www.empiredistrict.com. Applications will be processed within the time frames set forth by applicable law and MoPSC orders and rules.

QUALIFICATION DATE AND REBATE COMMITMENT:

The Qualification Date will be the postmarked date of the Net Metering Application and/or the Solar Rebate Application received by the Company that satisfy the Application Requirements and are subsequently approved by the Company.

The Company will only make a Rebate Commitment to a customer that has a Qualification Date and the customer, and their developer, will be notified in writing, by letter or email, of any deficiencies in the Application Requirements that will prevent a Rebate Commitment by the Company.

The Company’s Rebate Commitment to a customer will expire if:

1. The System has not attained an Operational Date within six (6) months of the Rebate Commitment date and the Company has not granted a six (6) month extension of the Rebate Commitment based upon the customer’s submission of a report of substantial progress requesting the extension which includes proof of purchase of the major System components, demonstration of partial System construction and building permit (if required), or
2. The System has not attained an Operational Date within twelve (12) months of the Rebate Commitment date, or
3. The System is not constructed in accordance with the design submitted by the customer and approved by the Company, thereby causing the Net Metering Application to become invalid

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23d

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

If a customer has satisfied all of the Completion Requirements but the Company is not able to complete all of the Company's steps needed to establish an Operational Date by the expiration of the Rebate Commitment, the Rebate Rate will be determined as though the Operational Date was achieved prior to the expiration. If it is subsequently determined that the customer or the System did not satisfy all Completion Requirements required of the customer on or before the expiration date, then the Rebate Commitment will expire and no payment will be made.

REBATE PAYMENT:

The amount of the rebate will be the combined direct current (DC) rating of the solar module(s) in watts as indicated by the applicant by clearly identifying the specific model number on the manufacturer's specification sheet(s) for the new System or the current expansion of an existing System multiplied by the rebate rate as determined by the Rebate Rate Schedule Provisions of this Rider SR.

A rebate payment will not be issued until:

1. A complete and accurate Net Metering Application has been executed by the customer and the Company, and
2. A complete and accurate Solar Rebate Application has been accepted by the Company and a Rebate Commitment made by the Company, and
3. Customer has satisfied all Completion Requirements, and
4. The System is operational.

A current Empire Net Metering customer does not need to complete a new Net Metering Application in order to take advantage of this Rider SR.

Rebate payments will be made within the time frames set forth by applicable law and MoPSC orders and rules.

NOTE: Confirmation by the Company that the System was installed and operational does not constitute any warranty or guaranty of fitness for a particular use. The Company expressly disclaims all warranties and conditions of merchantability and fitness for a particular purpose in connection with the customer's solar electric system. The customer is solely responsible for determining the appropriateness of using a qualifying solar electric system, including but not limited to the risk of system operational errors, damage to or loss of property, and unavailability or interruption of System operations. The Company will not be liable for any direct damages or for any special, incidental, or indirect damages or for any economic consequential damages. The Company will not be liable for any damages claimed based on a third party claim.

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ISSUED BY Kelly S. Walters, Vice President, Joplin, MO

DATE EFFECTIVE May 16, 2015
~~June 4, 2015~~

THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23e

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER RIDER SR

SOLAR RENEWABLE ENERGY CREDITS (SREC'S):

Customer shall transfer to the Company all right, title and interest in and to the solar renewable energy credits ("SRECs") associated with the new or expanded System that qualified customer for the solar rebate for a period of ten (10) years from the date the Customer receives its solar rebate.

SRECs produced by the System for which a rebate is received cannot be sold or promised for sale to any other party by customer or used by customer for any environmental or "green" program for a period of ten (10) years from the date the Customer receives its solar rebate.

The number of SRECs produced annually will be determined by the Company using PVWatts software developed by the U.S. Department of Energy (DOE) with the result rounded to the tenths digit.

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23f

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER
RIDER SR

MISSOURI SOLAR ELECTRIC REBATE APPLICATION

A. Solar Rebate (For Solar Installations only)

Solar Module Manufacturer: _____ Inverter Rating: _____ kW

Solar Module Model No: _____ Number of Modules/Panels: _____

Module Rating: _____ DC Watts System rating (sum of solar panels: _____ kW

Module Warranty: _____ years (circle on spec. sheet) Inverter Warranty: _____ years (circle on spec. sheet)

Location of modules: _____ Roof _____ Ground

Installation type: _____ Fixed _____ Ballast

System Installation Date: _____

Customer E-mail Address: _____

Customer Contact Phone Number: _____

Solar electric system must be permanently installed on the applicant's premises for a valid application.

Required documents to receive solar rebate (required to be attached for a valid application):

- Copies of detail receipts/invoices with purchase date circled
- Copies of detail spec. sheets on each component
- Copies of proof of warranty sheet (minimum of 10 year warranty)
- Photo(s) of completed system
- Completed Taxpayer Information Form (IRS Form W-9, Request for Taxpayer Identification Number and Certification)

MUST BE MAILED TO EMPIRE VIA U.S. POSTAL SERVICE, FEDEX OR UPS

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23g

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER RIDER SR

B. Solar Rebate Declaration (For Solar Installations only)

I understand that the complete terms and conditions of the solar rebate program are included in the Company's Rider SR – Solar Rebate tariff.

I understand that this program has limited budget, and that application will be accepted on a first-come, first-served basis, while funds are available. It is possible that I may be notified that I have been placed on a waiting list for the next year's rebate program if funds run out for the current year. This program may be modified or discontinued at any time without notice from the Company.

I understand that the solar electric system must be permanently installed and remain in place on premises for the duration of its useful life – a minimum often (10) years, and the system shall be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the system.

I understand the equipment must be new when installed, commercially available, and carry a minimum ten (10) year warranty.

I understand a rebate may be available from the Company on expanded or new solar electric systems that become operational after 12/31/2009. The applicable rebate rate and additional details and requirements can be found in the Company's Rider SR – Solar Rebate.

I understand the DC wattage rating provided by the original manufacturer and as noted in Section H will be used to determine the rebate amount.

I understand if my rebate is six hundred dollars (\$600) or more I will receive a Form 1099. (Please consult your tax advisor with any questions.)

I understand that as a condition of receiving a solar rebate, I am transferring to Company all right, title and interest in and to the solar renewable energy credits (SRECs) associated with the new or expanded System that qualified for the solar rebate and that **the SRECs cannot be sold or promised for sale to any other party or used by customer for any environmental or "green" program for a period of ten (10) years** from the date the I receive the solar rebate.

(NOTE: Confirmation by the Company that the System was installed and operational does not constitute any warranty or guaranty of fitness for a particular use. The Empire District Electric Company expressly disclaims any and all warranties or conditions of merchantability and fitness for a particular purpose in connection with the customer's solar electric system. The customer is solely responsible for determining the appropriateness of using a qualifying solar electric system, including but not limited to the risk of system operational errors, damage to or loss of property, and unavailability or interruption of System operations. The Empire District Electric Company will not be liable for any direct damages or for any special, incidental, or indirect damages or for any economic consequential damages. The Empire District Electric Company will not be liable for any damages claimed based on a third party claim.)

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THE EMPIRE DISTRICT ELECTRIC COMPANY

P.S.C. Mo. No. 5 Sec. 4 Original Sheet No. 23h

Canceling P.S.C. Mo. No. _____ Sec. _____ Sheet No. _____

For ALL TERRITORY

SOLAR REBATE RIDER RIDER SR

The undersigned warrants, certifies, and represents that the information provided in this form is true and correct to the best of my knowledge; and the installation meets all Missouri Net Metering and Solar Electric Rebate program requirements.

Print Name of Applicant

Print Installer's Name

Applicant's Signature

Installer's Signature

If Applicant is a Business, Print Title/Authority of
Person Signing on behalf of Applicant

Date

Date

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Empire District Electric Net Metering Summary (Missouri)

	Year 2010 ^{1&2}	Year 2011 ^{2&4}	Year 2012 ⁴	Year 2013 ^{4&5}	Year 2014 ⁵	Year 2015 ⁵
Total Kwh received at CP/NM Avoided Cost Rates ^{1, 2, 4 & 5}	17698	18793	6793	3018	4614	81,345
Total KW (Rated) Connected NM Generation	132.7	137.2	201.2	286.9	341.1	3,433.4
# NM Customers Current ³	15	17	27	32	41	280

¹ Jan 2009 through July 9, 2010; represents all Kwhrs received from customer using "CP" rate (based on "billing cycle" netting).

² July 10, 2010 through July 9, 2011; represents Kwhrs received at the "NM" Avoided Cost Rate (based on "billing cycle" netting).

³ Two NM customers were removed from grid-tie in 2011 (one connected 2/2011 - destroyed by tornado 5/2011, one connected 3/2010 - off grid 7/2011).

⁴ Includes Kwhrs generated from 1/1/11 - 7/9/11 at NM Rate and 7/10/11 - 1/12/13 at CP Rate (based on "billing cycle" netting).

⁵ Includes Kwhrs generated from 1/12/13 forward at NM Rate (based on "billing cycle" netting).