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## Alliant Energy - Gas Service Manual

### Appendix

**Issued:** 2018

**Supersedes:** 2015

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#### APPROXIMATE GAS INPUT FOR TYPICAL APPLIANCES

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Appliance	Input Btu/hr (Approx.)
<b><u>Space Heating Units</u></b>	
Warm air furnace	
Single family	100,000
Multifamily, per unit	60,000
<b><u>Space and Water Heating Units</u></b>	
Hydronic boiler	
Single family	120,000
Multifamily, per unit	75,000
<b><u>Water Heating Appliances</u></b>	
Water heater, automatic storage	
30 gal to 40 gal tank	35,000
50 gal tank	50,000
Water heater, automatic instantaneous	
Capacity at 2 gal/min	142,800
Capacity at 4 gal/min	285,000
Capacity at 6 gal/min	428,400
Water heater, domestic, circulating or side-arm	35,000
<b><u>Cooking Appliances</u></b>	
Range, freestanding, domestic	65,000
Built-in oven or broiler unit, domestic	25,000
Built-in top unit, domestic	40,000

(For SI units, 1 Btu/hr = 0.293 W, 1 gal = 3.8 L)



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**APPROXIMATE GAS INPUT FOR TYPICAL APPLIANCES (CONTINUED)**

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<b>Appliance</b>	<b>Input Btu/hr (Approx.)</b>
<b><u>Other Appliances</u></b>	
Refrigerator	3,000
Clothes dryer, Type 1 (domestic)	35,000
Gas fireplace direct vent	40,000
Gas log	80,000
Barbecue	40,000
Gas light	2,500

(For SI units, 1 Btu/hr = 0.293 W, 1 gal = 3.8 L)

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## **CUSTOMER PIPING MATERIAL SPECIFICATIONS**

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**The manufacturers listed below provide gas materials that are considered acceptable by the Company. This list does not include all manufacturers that meet these criteria but is intended to provide a sample of sources from which acceptable gas materials can be obtained.**

**Most manufacturers have installation guidelines on their websites. For more information on installation, visit the manufacturer's website.**

### **Valves**

All customer provided valves must be rated at the pressures listed below.

#### **Threaded Valves: 1/2 in, 3/4 in, 1 in, 1-1/4 in, 2 in:**

Valve, gas, plug, non-insulating, threaded, material is cast iron or ductile iron, tamperproof, minimum working pressure 125 psig, rated for natural gas.

##### Manufacturer

A.Y. McDonald  
Eclipse  
Mueller

#### **Flanged Valves: 2 in, 3 in, 4 in:**

Valve, gas, plug, flanged, minimum ANSI/ASME Class 125 (working pressure 200 psig), wrench operated, material is cast iron, ductile iron or steel, rated for natural gas.

##### Manufacturer

Nordstrom/Flowserve  
RESUN  
Walworth

### **Corrugated Stainless Steel Tubing (CSST) Pipe**

##### Manufacturer

Ward Manufacturing  
Omegaflex  
Gastite  
Parker Hannifin Corporation  
Tru-Flex Metal Hose  
Metal-Fab Inc.

### **Underground Risers**

##### Manufacturer

Elster-Perfection  
RW Lyall



**CUSTOMER PIPING MATERIAL SPECIFICATIONS (CONTINUED)**

**Flanges**

Type: Threaded  
 Size: 3 in, 4 in  
 Material: Forged Steel  
 Rating: ANSI/ASME Class 150, preferred, minimum ANSI/ASME Class 125

Flanges must meet requirements of ASME B16.5 and MSS SP-44.

**Note:** These minimum flange requirements apply to any customer flange that will meet up with a flange on the Company side piping. All other flanges on customer piping must meet the requirements of ASME B16.1, ASME B16.5, ASME B16.24, ASME B16.42, or ASME B16.47 per NFPA 54, Section 5.6.10.

**Note:** Where ANSI/ASME Class 150 steel flanges are bolted to ANSI/ASME Class 125 cast iron flanges, the raised face on the steel flange shall be removed.

**Note:** Lapped flanges shall only be used above ground or in exposed locations accessible for inspection.

**Gaskets**

The material for gaskets shall be suitable for natural gas service and for the design temperature and pressure of the piping system. The effects of fire exposure to the joint shall be considered when choosing the material.

Metallic flange gaskets shall be in accordance with ASME B16.20.

Non-metallic flange gaskets shall be in accordance with ASME B16.21.

Full-face flange gaskets shall be used with all non-steel flanges.

When a flanged joint is separated, the gasket shall be replaced.

**Flex Connectors**

Approved Flexible connectors which meet NFPA 54, Section 9.6 and ANSI Z21.75.

<u>Manufacturer</u>	<u>Trade Name</u>
Dormont	Super-Safe
BrassCraft	ProCoat
Tru-Flex	Home-Flex



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## **CUSTOMER PIPING MATERIAL SPECIFICATIONS (CONTINUED)**

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### **Wrapping/Coating Black Pipe**

The Company recommends an all-weather corrosion protectant pipe wrap or tape with a thickness of 10 to 20 mil (thousandths of an inch), and a PVC backing for impact and abrasion resistance. Wrap or tape should be installed with using at least a 50% overlap, resulting in an overall application of twice the base wrap or tape thickness.

Such products include 3M™ Scotchrap™ Tapes 50 and 51, which should both be used with 3M™ Scotchrap™ Pipe Primer.

### **Suggested places to purchase:**

**Amazon.com** – use hyperlink or search “3M Scotchrap Tape”

**Shop3M.com** – use hyperlink or search “3M Scotchrap Tape”

**HomeDepot.com** – use hyperlink or search “2 in. x 50 ft. 20 Mil Pipe Wrap Tape”



**CONVERSION CHART**

**ENERGY  
CONVERSION  
FACTORS**

<u>1 Cf (Cubic Feet) = Approximately 1,000 Btu</u>	<u>C = Hundred</u>
<u>1 Ccf = 100 Cf = 1 Therm</u>	<u>M = Thousand</u>
<u>1 Therm = 100,000 Btu = 100 Cf = 0.1 Mcf</u>	<u>MM = Million</u>
<u>10 Therms = 1 Mcf = 1 MMBtu</u>	<u>Dth = Dekatherm</u>
<u>1 Mcf = 1,000 Cf = 10 Ccf = 10 Therms = 1 Dth</u>	
<u>1 MMcf = 1,000 Mcf = 1,000,000 scf</u>	
<u>1 Quad = 10<sup>9</sup> Mcf = 10<sup>10</sup> Therms = 10<sup>15</sup> Btu</u>	

Comparative Thermal Values	1.00 million Btu	24.0 million Btu	0.0916 million Btu	0.125 million Btu	0.139 million Btu	0.150 million Btu	0.003412 million Btu
Natural Gas 1,000 Btu / Cf	1,000 Cf	24,000 Cf	91.600 Cf	125.000 Cf	139.000 Cf	150.000 Cf	3.412 Cf
Coal 12,000 Btu /lb	83.333 lb	2,000 lb	7.633 lb	10.417 lb	11.583 lb	12.500 lb	0.2843 lb
Propane 91,600 Btu /Gal	10.917 Gal	262.009 Gal	1 Gal	1.365 Gal	1.517 Gal	1.638 Gal	0.0373 Gal
Gasoline 125,000 Btu /Gal	8.000 Gal	192.000 Gal	0.733 Gal	1 Gal	1.112 Gal	1.200 Gal	0.0273 Gal
Fuel Oil #2 139,000 Btu /Gal	7.194 Gal	172.662 Gal	0.659 Gal	0.899 Gal	1 Gal	1.079 Gal	0.0245 Gal
Fuel Oil #6 150,000 Btu /Gal	6.666 Gal	160.000 Gal	0.611 Gal	0.833 Gal	0.927 Gal	1 Gal	0.0277 Gal
Electricity 3,412 Btu /Kwh	293.083 Kwh	7,033.998 Kwh	26.846 Kwh	36.635 Kwh	40.739 Kwh	43.962 Kwh	1 Kwh



**GAS PIPING STATEMENT - SAMPLE**



**GAS PIPING STATEMENT**

Customer Name	Owner of Premises <input type="checkbox"/> Same as above	Tax District	Work Request No.
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LOCATION OF PREMISES			
County	Town	Range	Section
Address	City	State	Zip

Contractor Name	Gas Piping Installer's Name	Phone No. (      )
Contractor Address	City	State      Zip

TYPE OF SERVICE: (check appropriate boxes)						
<input type="checkbox"/> Residence	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	<input type="checkbox"/> New Piping	<input type="checkbox"/> Existing Piping	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Converted Piping

DELIVERY PRESSURE		
<input type="checkbox"/> 7" W.C.	<input type="checkbox"/> 2 psig	Other _____

APPLIANCES CONNECTED & BTU / HR					
<input type="checkbox"/> Furnace	BTU/HR _____	<input type="checkbox"/> Water Heater	BTU/HR _____	<input type="checkbox"/> Tankless Water Heater	BTU/HR _____
<input type="checkbox"/> Range	BTU/HR _____	<input type="checkbox"/> Dryer	BTU/HR _____	<input type="checkbox"/> Fireplace	BTU/HR _____
<input type="checkbox"/> Other	BTU/HR _____				

The undersigned states the above piping was completed and tested for natural gas service and was inspected and pressure tested on the premises described above according to applicable codes and that the gas piping complies with the provisions of all applicable codes and Alliant Energy service rules.

PRESSURE TEST DATE (Required) ____/____/____ Month      Day      Year	Signature _____
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ADDITIONAL REQUIREMENTS (these requirements MUST be completed prior to permanent gas turn-on.)
<p>This is not a complete list, consult the Alliant Energy Gas Service Manual and NFPA® 54 for complete requirements. We are calling out the items in the list below because they are frequently missed.</p> <ol style="list-style-type: none"> <li>1. Installation of a significant portion of internal customer piping, including required valves (inside and out) must be completed prior to Alliant Energy accepting a Gas Piping Statement and providing permanent gas turn-on.</li> <li>2. Customer piping must be connected to the gas meter outlet with all valves in closed position and pipe ends capped before Alliant Energy will provide permanent gas turn-on.</li> <li>3. Through-wall piping MUST be protected against corrosion by coating or wrapping with an inert material approved for such applications.</li> <li>4. All exterior piping, other than galvanized piping, MUST be painted with exterior grade paint (color optional).</li> <li>5. Mark the piping on multiple meters set installations with permanent metal tags designating which unit will be served by each meter.</li> <li>6. Pressure test customer piping at a minimum of 3psi for a minimum of 10 minutes.                     <ul style="list-style-type: none"> <li>• This testing criterion applies only to piping being served by Standard Pressure of 7 inches of water column. If any other pressure is being requested, consult our Gas Service Manual (available online at <a href="http://www.alliantenergy.com">www.alliantenergy.com</a>) for minimum pressure testing requirements.</li> <li>• <b>Caution: Do not pressurize equipment control valves at this pressure.</b></li> </ul> </li> </ol> <p>Submit this completed Gas Piping Statement to your local Service Department only after ALL of the above work is completed. This completed form must be received for the customer to be provided permanent gas service.</p>

ECRM158958 REV.5 07/18



**RESIDENTIAL ELECTRIC AND NATURAL GAS SERVICE APPLICATION – SAMPLE IPL**



INTERSTATE POWER AND LIGHT COMPANY (the "Company")  
RESIDENTIAL ELECTRIC AND NATURAL GAS  
SERVICE APPLICATION AND AGREEMENT

Page 1 of 2

FOR OFFICE USE ONLY				
Date Received		Electric WR No.	Gas WR No.	Customer Account No.
Company Representative		Work Phone No. ( ) ( ) ( )	Map Location	
CUSTOMER AND SITE INFORMATION				
Customer Name (Last/First/MI) (hereinafter the "Customer")				Last Four Digits of Social Security No. XXX-XX-
New Service Address / File No.	Street	City	State	Zip
Existing Mailing Address / File No.	Street	City	State	Zip
Home Phone No. ( ) ( ) ( )	Cell Phone No. ( ) ( ) ( )	Work Phone No. ( ) ( ) ( )	Fax No. ( ) ( ) ( )	E-mail Address
City / Town / Village (check one and enter name) <input type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village (Name)		Subdivision Name		Lot No.
County	Square Footage of Dwelling	Dwelling Type <input type="checkbox"/> Single Family <input type="checkbox"/> Multi-Family	(Number of Units)	
BILLING INFORMATION				
Who should be billed for electric/gas installation? <input type="checkbox"/> Builder <input type="checkbox"/> Customer		Who should be billed for electric/gas usage during construction? <input type="checkbox"/> Builder <input type="checkbox"/> Customer		
CONTRACTOR INFORMATION				
Contractor Name		Contact Person Name	Federal Tax I.D. No.	
Address / File No.	Street	City	State	Zip
Home Phone No. ( ) ( ) ( )	Cell Phone No. ( ) ( ) ( )	Work Phone No. ( ) ( ) ( )	Fax No. ( ) ( ) ( )	E-mail Address
Electrical Contractor		Work Phone No. ( ) ( ) ( )	Phone No. ( ) ( ) ( )	
Heating Contractor		Work Phone No. ( ) ( ) ( )	Cell Phone No. ( ) ( ) ( )	
ELECTRIC SERVICE REQUIREMENTS				
Date Permanent Electric Service Needed (MM/DD/YY): / /		Date Temporary Electric Service Needed (MM/DD/YY): / /		
Service Amps <input type="checkbox"/> 100 <input type="checkbox"/> 200 <input type="checkbox"/> 300 <input type="checkbox"/> Other	Service Type <input type="checkbox"/> Overhead <input type="checkbox"/> Underground	Voltage <input type="checkbox"/> 120/240 <input type="checkbox"/> Other		
Electric Equipment <input type="checkbox"/> Electric Heat _____ Watts <input type="checkbox"/> Water Heater _____ Quantity _____ Ton	<input type="checkbox"/> Ground Source Heat Pump _____		Locked Rotor Amps (LRA) <input type="checkbox"/> Other (Hot Tubs, etc.) _____	
GAS SERVICE REQUIREMENTS				
Estimated Date Permanent Gas Service Will Be Needed (MM/DD/YY): / /		Delivery Pressure Needed <input type="checkbox"/> 1/4 psi / 7" water column (wc) <input type="checkbox"/> 2 lbs. per square inch (psi)		
Natural Gas Equipment <input type="checkbox"/> Heating _____ Quantity _____ BTU's		<input type="checkbox"/> Water Heater _____ Quantity _____ BTU's		
<input type="checkbox"/> Range _____ Quantity _____ BTU's		<input type="checkbox"/> Dryer _____ Quantity _____ BTU's		
<input type="checkbox"/> Instantaneous Water Heater _____ Quantity _____ BTU's		<input type="checkbox"/> Other (Generator, Pool Heater, etc.) _____ Quantity _____ BTU's		
BUILDING SITE SKETCH AND METER LOCATION REQUIREMENTS				
Customer must include a building site sketch with this application and mark the following information on the map: 1. Mark a "C" for your proposed electric meter location with a measurement from the nearest corner of the dwelling 2. Mark an "E" for your proposed electric meter socket/pedestal location with a measurement from the nearest corner of the dwelling 3. Show all decks, pools, wells, septic, underground tank/fuel lines, drain lines/downspouts, Customer-owned wires, sprinkler systems, yard lighting, sewer lateral, etc.				
ITEMS COMPANY WILL NEED PRIOR TO SERVICE INSTALLATION/CONNECTION				
Type an "X" in the following boxes to ensure the steps have been completed. If they do not apply to your installation, type "N/A" in the box.				
<input type="checkbox"/>	1) Application filled out completely and signed	<input type="checkbox"/>	2) Sketch of Customer-owned facilities included with application	<input type="checkbox"/>
<input type="checkbox"/>	4) Electric/gas route within 6 inches of final grade and clear of all obstructions (e.g., lumber, machinery, etc.)	<input type="checkbox"/>	5) Recorded copy of certified survey map or platted lot and lot corners staked	<input type="checkbox"/>
<input type="checkbox"/>	7) Expose or locate (with staking, flagging and/or other durable marking) the physical location of any Customer-owned underground facilities (e.g., wells, septic, underground tank/fuel lines, drain lines/downspouts, Customer-owned wires, sprinkler systems, and yard lighting)	<input type="checkbox"/>	8) Other:	<input type="checkbox"/>
NOTE: Company and/or its agent will not be held responsible for damage occurring to Customer-owned underground facilities that are not properly located and marked before the installation of electric and/or natural gas service.				

75-2885 ICCRM1650515 06/14





RESIDENTIAL ELECTRIC AND NATURAL GAS SERVICE APPLICATION (CONTINUED)



INTERSTATE POWER AND LIGHT COMPANY (the "Company")
RESIDENTIAL ELECTRIC AND NATURAL GAS
SERVICE APPLICATION AND AGREEMENT

Page 2 of 2

- 1. The Company agrees to furnish, and the Customer agrees to take and pay for utility service in accordance with provisions and rates approved by the State Regulatory Authority;
2. The Customer does hereby certify that the structure served by the gas and/or electric service line, if completed after April 1, 1984, and if intended primarily for human occupancy, conforms to the energy conservation requirements adopted under the Iowa Administrative Code Sections 661-303.2 (103A) and 661-303.3 (103A) or Minn. Rules Chapter 1322 for Minnesota customers.
3. INDEMNIFICATION. The Customer shall hold the Company harmless for any damage to persons or property arising out of the use upon the Customer's site of the electric service or gas service furnished to it by the Company.
4. Easement: Right of Access
a. The Customer, if also the landowner, grants to the Company the right to clear for construction, installation, reconstruction, operation and maintenance of its overhead and/or underground electric line or gas piping and to use any necessary equipment in, on and across the above described lands along highways and along fence lines thereon, and to extend such lines along or near property lines of such premises as may reasonably be necessary to extend service to future applicants for such service and to permit the attachment of communication lines and equipment owned by others.
5. The Customer understands and agrees that prior to installation of underground electric lines or gas piping, the landowner shall have established the final grade of the roadway that after installation of the line the grade shall not be increased or decreased more than 6 inches without the prior written approval of the Company.
6. The Customer is responsible for notifying the Company of contaminated media (e.g., soil, groundwater) that may be present on the site prior to Company commencing installation or extension of service.
7. If contaminated media is encountered during the installation or extension of service, the Company shall terminate the installation or extension of service and notify the Customer.
8. If Customer requests a gas pressure change (e.g., 7" wc to 2 psig) or if Customer requests an increase in pipe size (e.g., 250 to a 425), Customer will be charged the cost for Company personnel to make the change.
9. The Company agrees to return any deposit, with interest, as required by the rules and regulations of the appropriate State Regulatory Authority, 12 months from the effective date of this application unless 1) the Customer's service has been discontinued at that time, or 2) the Company determines that the information in the initial application was inaccurate or incomplete.
10. The Residential Service Customer Charge as filed with the State Regulatory Authority may be billed to the Customer beginning on the date the meter is installed.
11. This agreement shall become effective when acceptance of the application has been received on behalf of the Company.

TRENCH MARKING AGREEMENT

The Customer agrees that the Company will dig, trench, or bore on the Customer's property located at the address written above for the installation of utility service. Utility rates are based on rough construction meaning the Company will backfill and smooth over any excavations that the Company performs. Final restoration, grass seeding, watering and mowing are the Customer's responsibilities.

Prior to digging, trenching, or boring, the Company will identify the route of the proposed excavation. The Company will notify other utility owners to facilitate the marking of existing underground utility lines, including, telephone, cable TV.

The Customer agrees to physically mark the location of any and all Customer-owned obstacles that lie underground within ten feet of proposed excavation. Such obstacles include, but are not limited to, septic and sewer systems, buried wires for out-buildings or decorative lighting, and LP gas lines. The Customer shall mark the location of all of these obstacles with stakes or flags or by painting the ground. The Customer hereby accepts any and all responsibility for damage to, or damage done by striking, any such underground obstacle the Customer fails to mark or marks incorrectly.

APPROVAL AND ACCEPTANCE (I have read and understand the terms and conditions above)

Customer Signature, Customer Printed Name, Date

ACCEPTED BY COMPANY

Company Representative Signature, Company Representative Printed Name, Date

ROUTING: Return to Company

75-2685 ECRM1850515 06/14



**RESIDENTIAL ELECTRIC AND NATURAL GAS SERVICE APPLICATION SAMPLE WPL**



WISCONSIN POWER AND LIGHT COMPANY (aka "Company")  
RESIDENTIAL ELECTRIC AND NATURAL GAS  
SERVICE APPLICATION AND AGREEMENT

Page 1 of 2

FOR OFFICE USE ONLY					
Date Received		Electric WR No.	Gas WR No.	Customer Account No.	
Company Representative		Work Phone No. ( )	Map Location		
CUSTOMER AND SITE INFORMATION					
Customer Name (Last/First/MI) (Indicate the "Customer")					Last Four Digits of Social Security No. <b>XX-XX</b>
New Service Address / Fire No.	Street	City	State	Zip	
Existing Mailing Address / Fire No.	Street	City	State	Zip	
Home Phone No. ( )	Cell Phone No. ( )	Work Phone No. ( )	Fax No. ( )	E-mail Address	
City / Town / Village (check one and enter name) <input type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village (Name)			Subdivision Name		Lot No.
County	Square Footage of Dwelling		Dwelling Type <input type="checkbox"/> Single Family <input type="checkbox"/> Multi (Number of Units)		
BILLING INFORMATION					
Who should be billed for electric/gas installation? <input type="checkbox"/> Builder <input type="checkbox"/> Customer			Who should be billed for electric/gas usage during construction? <input type="checkbox"/> Builder <input type="checkbox"/> Customer		
CONTRACTOR INFORMATION					
Builder/Contractor Name		Contact Person Name		Federal Tax I.D. No.	
Address / Fire No.	Street	City	State	Zip	
Home Phone No. ( )	Cell Phone No. ( )	Work Phone No. ( )	Fax No. ( )	E-mail Address	
Electrical Contractor		Work Phone No. ( )	Phone No. ( )		
Heating Contractor		Work Phone No. ( )	Cell Phone No. ( )		
ELECTRIC SERVICE REQUIREMENTS					
Data Permanent Electric Service Needed (AM/DD/YY): / /			Temporary Electric Service Needed (AM/DD/YY): / /		
Service Amps <input type="checkbox"/> 100 <input type="checkbox"/> 200 <input type="checkbox"/> 300 <input type="checkbox"/> Other	Service Type <input type="checkbox"/> Overhead <input type="checkbox"/> Underground	Voltage <input type="checkbox"/> 120/240 <input type="checkbox"/> Other			
Electric Equipment <input type="checkbox"/> Electric Heat <input type="checkbox"/> Water Heater <input type="checkbox"/> Quantity <input type="checkbox"/> A/C <input type="checkbox"/> Toner <input type="checkbox"/> Ground Source Heat Pump	Looked Rotor Amps (LIRA)	<input type="checkbox"/> Other (Hot Tubs, etc.)			
GAS SERVICE REQUIREMENTS					
Estimated Date Permanent Gas Service Will Be Needed (AM/DD/YY): / /			Delivery Pressure Needed <input type="checkbox"/> 1/4 psi / 1" water column (w.c.) <input type="checkbox"/> 2 lbs. per square inch (psi)		
Natural Gas Equipment <input type="checkbox"/> Heating <input type="checkbox"/> Quantity <input type="checkbox"/> Water Heater <input type="checkbox"/> Quantity <input type="checkbox"/> BTUs	<input type="checkbox"/> Range <input type="checkbox"/> Quantity <input type="checkbox"/> BTUs	<input type="checkbox"/> Dryer <input type="checkbox"/> Quantity <input type="checkbox"/> BTUs	<input type="checkbox"/> Instantaneous Water Heater <input type="checkbox"/> Quantity <input type="checkbox"/> BTUs	<input type="checkbox"/> Other (Generator, Pool Heater, etc.) <input type="checkbox"/> Quantity <input type="checkbox"/> BTUs	
BUILDING SITE SKETCH AND METER LOCATION REQUIREMENTS					
Customer must include a building site sketch with this application and mark the following information on the map: 1. Mark a "G" for your proposed gas meter location with a measurement from the nearest corner of the dwelling 2. Mark an "E" for your proposed electric meter location with a measurement from the nearest corner of the dwelling 3. Show all decks, porches, patios, underground leak/fuel lines, drain stacks/downspouts, Customer-owned wires, sprinkler systems, yard lighting, sewer lateral, etc.					
ITEMS COMPANY WILL NEED PRIOR TO SERVICE INSTALLATION/CONNECTION					
Type an "X" in the following boxes to ensure the steps have been completed. If they do not apply to your installation, type "N/A" in the box.					
<input type="checkbox"/> 1) Application filled out completely and signed	<input type="checkbox"/> 2) Sketch of Customer-owned facilities included with application	<input type="checkbox"/> 3) Payment of construction charges, if applicable			
<input type="checkbox"/> 4) Electrical/gas runs within 6 inches of final grade and clear of all obstructions (e.g., lumber, machinery, etc.)	<input type="checkbox"/> 5) Recorded copy of certified survey map or plotted lot and lot corners sketched	<input type="checkbox"/> 6) Appropriate inspection form or statement turned into Company for gas and electric utilities			
<input type="checkbox"/> 7) Exposed or locate (with staking, flagging and/or other durable marking) the physical location of any Customer-owned underground facilities, e.g., wells, septic, underground leak/fuel lines, drain stacks/downspouts, Customer-owned wires, sprinkler systems, and yard lighting	<input type="checkbox"/> 8) Other:				
NOTE: Company and/or its agent will not be held responsible for damage occurring to Customer-owned underground facilities that are not properly located and marked before the installation of electric and/or natural gas service.					

75-3284 SCRM102814 04/14



RESIDENTIAL ELECTRIC AND NATURAL GAS SERVICE APPLICATION (CONTINUED)



WISCONSIN POWER AND LIGHT COMPANY (as "Company")
RESIDENTIAL ELECTRIC AND NATURAL GAS
SERVICE APPLICATION AND AGREEMENT

Page 2 of 2

- 1. The Company agrees to furnish and the Customer agrees to take and pay for utility service in accordance with provisions and rates approved by the State Regulatory Authority;
2. INDEMNIFICATION: The Customer or Customers individually and jointly agree to indemnify and hold harmless the Company for any damage to persons or property arising out of the use upon the Customer's site of the electric service or gas service furnished to it by the Company.
3. EASEMENT: Right of Access
a. The Customer, if also the landowner, grants to the Company the right to clear for construction, installation, reconstruction, operation and maintenance of its overhead and/or underground electric line or gas piping and to use any necessary equipment in, on and across the above described lands along highways and along fence lines thereon, and to extend such lines along or near property lines of such premises as may reasonably be necessary to extend service to future applicants for such service, and to permit the attachment of communication lines and equipment owned by others.
4. The Customer understands and agrees that prior to installation of underground electric lines or gas piping, the landowner shall have established the final grade of the route and that after installation of the line the grade shall not be increased or decreased more than 6 inches without the prior written approval of the Company.
5. The Customer is responsible for notifying the Company of contaminated media (e.g., soil, groundwater, etc.) that may be present on the site prior to Company commencing installation or extension of service.
6. If contaminated media is encountered during the installation or extension of service, the Company shall terminate the installation or extension of service at the customer.
7. If Customer requests a gas pressure change (e.g., 7" w to 2" psig) or if Customer needs to change the meter size (e.g., 3/4" to 1" or 1" to 1 1/2"), Customer shall be charged the cost for Company personnel to make the change.
8. The Company agrees to return any deposit, with interest, according to the rules and regulations of the applicable State Regulatory Authority, 12 months from the date of this application unless 1) the Customer's service has been disconnected within that time, or 2) the Company determines that the information in the initial application was inaccurate or incomplete.
9. The Customer acknowledges the right to make written request to the Company that the State Department of Health and Social Services be notified at least 5 calendar days prior to a scheduled disconnection of service for rule violation or non-payment.
10. The Residential Service Customer Charge on file with the State Regulatory Authority may be billed to the Customer beginning on the date the meter is installed.
11. Failure to Consume Natural Gas
a. The Customer agrees to begin consuming natural gas within 6 months of installation of the service lateral.
b. If the Customer does not begin consuming gas within 6 months of installation of the service lateral, the Customer shall be liable for service pipe removal costs.
c. After the service lateral has been installed, the Customer shall avoid violations under these agreements by requesting discontinuance of service or by requesting service under a different schedule.
d. This agreement obligates the Customer's heirs, successors and assigns. This agreement may not be assigned to a tenant or future purchaser of the premises.
12. This agreement shall become effective when acceptance of the application has been signed on behalf of the Company.

TRENCH MARKING AGREEMENT

The Customer agrees that the Company will trench, plow or bore on the Customer's property located at the address written above for the installation of utility services. Utility rates are based on rough grade construction means and the Company will backfill and smooth over any excavations that the Company performs. Final restoration, grass seeding, watering and mowing are the Customer's responsibility.

Prior to digging, trenching, or boring, the Company will identify the route of the proposed excavation. The Company will notify other utility owners to facilitate the marking of existing underground utilities, including electric telephone and cable TV.

The Customer agrees to physically mark the location of any and all Customer-owned obstacles that lie underground within ten feet of proposed excavation. Such obstacles include, but are not limited to, septic and sewer systems, buried wires for out-buildings or decorative lighting, and LP gas lines. The Customer shall mark the location of all of these obstacles with stakes or flags or by painting the ground. The Customer hereby accepts any and all responsibility for damage to, or damage done by, striking, any such underground obstacles the Customer fails to mark or marks incorrectly.

APPROVAL AND ACCEPTANCE (I have read and understand the terms and conditions above)
Customer Signature, Customer Printed Name, Date
ACCEPTED BY COMPANY
Company Representative Signature, Company Representative Printed Name, Date
ROUTING: Return to Company 35-2624 ECHN162674 04/14



(INTENTIONALLY LEFT BLANK)