# GAS SERVICE MANUAL

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IOWA

Adair County
Adel
Afton
Agency
Akrion
Algona
Alleman
Allison
Altoona
Alvord
Ankeny
Aplington
Archer
Arthur
Atalissa
Atkins
Audubon
Audubon County
Aurelia
Avoca
Badger
Bagley
Barnes City
Battle Creek
Bayard
Beacon
Benton County
Bertram
Bettendorf
Black Hawk County
Blue Grass
Bondurant
Boone County
Bouton
Boyden
Brayton
Bremer County
Bristow
Buchanan County
Buena Vista County
Buffalo
Bussey
Butler County
Calhoun County
Callender
Calumet
Carlisle
Carson
Cass County
Cedar County
Cedar Rapids
Charles City
Cherokee County
Chickasaw County
Clarion
Clarksville
Cleghorn
Clinton County
Clive
Colfax
Coralville
Cumming
Cylinder
Dakota City
Dallas Center
Dallas County
Danbury
Davenport
Davenport
Denver
Des Moines
De Soto
Dexter
Donnellson
Doon
Dubuque County
Dumont
Duncombe
Dunkerton
Dunlap
Dun
Eagle Grove
Earlham
Earling
Early
Eddyville
Eldridge
Elk Horn
Elk Run Heights
Elkhart
Elliot
Ely
Emerson
Emmet County
Essex
Evansdale
Exira
Fairfax
Farragut
Fenton
Floyd
Floyd County
Fort Dodge
Fort Madison
Franklin County
Fremont
Fremont County
Galva
Gilbertville
Goldfield
Granville
Grimes
Griswold
Guthrie County
Hamilton
Hampton
Hancock
Harrison County
Hartford
Harvey
Hedrick
Henderson
Hiawatha
Hills
Hinton
Holstein
Hosers
Hudson
Hull
Humboldt
Humboldt County
Ia County
Ia Grove
Independence
Indiana
Inwood
Iowa City
Irwin
Jackson County
Jamaica
Janesville
Jasper County
Jesup
Johnson County
Johnston
Keokuk County
Keokuk City
Keokuk Village
Kimballton
Kingsley
Kossuth County
Lake City
Larrabee
Latimer
Lawton
Le Mars
Le Claire
Lee County
Leighton
Linden
Linn County
Logan
Lohrville
Long Rock
Long Grove
Lovilia
Lyons
Lyons County
Lyton
Macdonia
Madison County
Mahaska County
Malvern
Manson
Mapleton
Marcus
Marion
Marion County
Marne
Martensdale
Melcher-Dallas
Meriden
Merrill
Mills County
Milo
Minburn
Minden
Mingo
Missouri Valley
Mitchellville
Monona County
Monroe
Monroe County
Montgomery County
Mooral
Moville
Muscatine County
Nashua
Neola
New Hartford
New Sharon
Newell
North Liberty
Norwalk
Oakland
O’Brien County
Odebolt
Oskaaloosa
Otho
Ottumwa
Oxford
Pacific Junction
Page County
Pal Alto County
Panora
Panora
Panorama Park
Parksburg
Perry
Persia
Plainfield
Pleasant Hill
Pleasantville
Plymouth County
Polk City
Polk County
Port Neal
Portsmouth
Pottawattamie County
Prairie City
Princeton
Raymond
Red Oak
Redfield
Ringsdale
Riverdale
Riverside
Robins
Rock Valley
Rockwell
Rockwell City
Rutten
Sac County
Saint Charles
Saint Marys
Salix
Schatz
Scott County
Sergeant Bluff
Sheffield
Shelby
Shelby County
Sheldon
Shell Rock
Shenandoah
Shueville
Silver City
Sioux City
Sioux County
Sloan
Solon
Spring Hill
Stanton
Stuart
Sutherland
Swisher
Thor
Tifton
Treynor
Underwood
Union County
University Heights
University Park
Urbandale
Van Meter
Wallott
Walnut
Wapello County
Warren County
Washington County
Waterloo
Waukee
Waverly
Webster County
Wesley
West Des Moines
West Liberty
West Point
Whiting
Wilton
Windsor Heights
Winterset
Woodbury County
Winterset
Wright County
Yale
COMMUNITIES SERVED

ILLINOIS
Andalusia
Carbon Cliff
Cleveland
Coal Valley
Colona
Cordova
East Moline
Hampton
Henry County
Hillsdale
Milan
Moline
Oak Grove
Orion
Port Byron
Rapids City
Rock Island
Rock Island County
Silvis

SOUTH DAKOTA
Alcester
Baltic
Beresford
Brandon
Canton
Centerville
Clay County
Colton
Dakota Dunes
Dell Rapids
Elk Point
Flandreau
Gayville
Harrisburg
Hartford
Jefferson
Lake County
Lennox
Lincoln County
McCook County
Minnehaha County
Montrose
Moody County
North Sioux City
Ramona
Salem
Sioux Falls
Tea
Turner County
Union County
Valley Springs
Vermillion
Worthing
Yankton
Yankton County

NEBRASKA
Crystal Lake
Dakota City
Dakota County
South Sioux City
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**A** FACILITY AGREEMENT FORMS |  
- Gas Service Facility Application Agreement (65-7 or 65-7A) | 48-49  
- Gas / Electric Service Facility Application Agreement (2-100) | 50-51  
- South Dakota Gas Facility Agreement (64-93A) | 52-53  
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**B** COMMERCIAL GAS SERVICE WORKSHEET (65-29E) | 55  
**C** CUSTOMER’S AUTHORIZATION FORM (18-2) | 56-57
The purpose of this manual is to supply essential information regarding gas installations of MidAmerican Energy Company (MidAmerican Energy or Company) to:

- Customers
- Customer’s representatives
- Employees
- Architects
- Engineers
- Contractors

It is the Company’s objective to cooperate with and assist customers in obtaining safe, efficient gas service. The Company’s facilities will be constructed, installed, maintained and operated in accordance with applicable codes and accepted good engineering practice in the gas industry to ensure, as far as reasonably possible, continuity of service, uniformity in the quality of the service furnished, and the safety of persons and property.

The official and most current version of this manual is found on midamericanenergy.com website, on the “Contractors” page.

Information contained within this manual shall not be construed to relieve or lessen the responsibility of the customer or customer’s representative from complying with all applicable codes, rules and regulations.

Consistent with the Company’s tariff, no inspection by the Company or failure to object to the customer’s installation shall render the Company liable for injury or damage resulting from any defective or deficient installation by the customer.
The information in this manual is based upon management-approved interpretation of the intended safe and practical application of the following:

- NFPA 501A Standard for Fire Safety Criteria for Manufactured Home Installations, Sites and Communities
- Uniform Mechanical Code
- Pipeline Safety Regulations CFR 49 Part 192
- Regulations of the governing state’s utilities commission/board
- MidAmerican Energy tariffs

All installations shall meet these requirements for design, construction, materials and maintenance of natural gas fuel piping systems, equipment and related accessories.

Local governing authorities may impose more stringent requirements than shown in this manual.

This manual does not cover gas utility installations that are under the exclusive control of the Company for the purpose of:

- Metering
- Control
- Regulation
- Transmission
- Distribution
- Associated work practices of the Company in the exercise of its function as a utility

If you desire to discuss specific problems not covered or resolved by this manual, contact your Company representative or call 1-888-427-5632.

For additional copies of the 2018 Gas Service Manual, contact your Company representative or call 1-888-427-5632.

Additional information on MidAmerican Energy’s rates and tariffs, and a current list of the communities served, can be found on our website: www.midamericanenergy.com
# 1.0 SAFETY

## INTRODUCTION

The purpose of this section is to help those working near natural gas to understand the inherent dangers of natural gas, to help prevent damage to customer equipment and property, and to help prevent damage to Company facilities.

## WHAT IS NATURAL GAS?

Natural gas is a naturally occurring mixture of combustible hydrocarbon gases (primarily methane) found in underground reservoirs. Natural gas is lighter than air and is colorless, tasteless and odorless.

## SMELL OF NATURAL GAS

Natural gas is an odorless gas. An odorant is added to natural gas to produce a “rotten egg” or skunk-like odor.

## DANGERS OF NATURAL GAS

The presence of all three of the following can produce a natural gas fire or explosion:

- Natural Gas
- Oxygen
- Source of Ignition

If the concentration of natural gas is 5-15% of gas in air and a source of ignition is present, an explosion and/or fire may result.

## EXCESS FLOW VALVES

Federal regulations require that MidAmerican Energy install an excess flow valve on all eligible new or rebuilt service lines.

You may request that MidAmerican install an excess flow valve on your existing gas service line. To learn about costs and find out if your service is eligible, contact your Company representative or call 1-888-427-5632.

## MANUAL SERVICE LINE SHUTOFF VALVES

Federal regulations require that MidAmerican Energy install manual service line shutoff valves on new or rebuilt service lines, as required.

## EMERGENCY PHONE NUMBER

If you smell natural gas or suspect a gas leak, immediately evacuate the building and move to a safe location. Avoid doing anything that might produce static or sparks, such as touching any electrical switches, telephones (including cell phones) or smoking. Next, report the leak by calling MidAmerican Energy at: 1-800-595-5325
1.1 SAFETY OF CUSTOMER EQUIPMENT

CUSTOMER RESPONSIBILITY

The customer is solely responsible for all piping and equipment beyond the delivery point. This includes obtaining any necessary safety inspections, tests and repairs required to ensure safe operation. The delivery point will be the outlet side of the MidAmerican Energy meter set or at the connection to the customer’s piping, whichever is further downstream.

To help ensure safety, the customer is required to use only piping, equipment and appliances that meet recognized gas piping, appliance and equipment codes. If any questions concerning the compliance of customer equipment arise, the customer should contact the local governing authority or MidAmerican Energy for assistance.

For the customer’s responsibilities for pipe that is beyond the delivery point, refer to “Customer Owned Fuel Piping” on the following page.

The Company may refuse to provide service or may disconnect service, without notice, for a hazardous condition on the customer’s premises.

PROTECTION OF EQUIPMENT AND PIPING

When the gas delivery pressure is in excess of 7 inches water column, the customer is responsible for providing regulation devices downstream of the Company meter to control the delivered pressure. It is the responsibility of the customer to provide over-pressure-protection devices downstream of any customer-owned regulating devices. The customer shall notify MidAmerican Energy prior to making any changes to their system’s Maximum Allowable Operating Pressure (MAOP).

INSPECTION OF CUSTOMER FACILITIES

MidAmerican Energy may, but is not required or obligated to, inspect customer equipment when:

- turning service on or off,
- checking for gas leaks,
- investigating high or low gas pressure complaints,
- reading meters,
- relocating meters or
- performing any other similar utility services.

Any inspection of customer-owned piping or equipment by MidAmerican Energy is to avoid unnecessary interruptions of service to its customers or prevent damage to Company facilities and for no other purpose. The inspection shall not be construed to impose any liability upon the Company to the customer or any other person by reason thereof, and MidAmerican Energy shall not be liable or responsible for any loss, injury or damage which may result from the use of or defects in the customer’s piping or equipment.
1.1 SAFETY OF CUSTOMER EQUIPMENT

CUSTOMER OWNED FUEL PIPING

MidAmerican Energy does not inspect or maintain customer-owned fuel piping beyond the delivery point. Customer-owned fuel piping must comply with National Fuel Gas Code NFPA 54 requirements or other local codes, whichever is more stringent. To meet these requirements, the customer is responsible for completing locates and periodic leak inspections on buried metallic and plastic pipes. The customer is also responsible for atmospheric corrosion inspections on metallic pipes and taking preventative action to control corrosion on buried metallic pipes. Repairs should be made immediately by a qualified person to correct any unsafe conditions. Check with your local governing authorities for more information.

APPROVED APPLIANCE CONNECTORS

Older appliance connectors that were made of uncoated brass or aluminum are prone to leaking. These connectors were deemed unsafe by government officials because of the high instances of leakage. MidAmerican Energy recommends customers have a qualified plumbing and heating dealer replace any uncoated brass connectors with approved connectors certified by the CSA Group (CSA). Approved connectors are made of either stainless steel or plastic coated metal that conforms to American National Standards Institute (ANSI) Z21.24.

The following CSA marks indicate that gas appliances and equipment designs meet minimum defined safety and performance standards, including all appropriate ANSI standards, and identifies that the product is certified for use in the United States.

USA Only

![CSA US](image)

![NRTL](image)

USA and Canada

![CSA US](image)

![NRTL/C](image)

(NRTL = OSHA Nationally Recognized Testing Laboratory)

Approved appliance connectors:
- CSA approved connectors
- Stainless steel connectors
- Coated brass connectors

Unapproved Connectors:
- Connectors not approved by CSA
- Aluminum connectors
- Uncoated brass connectors

For additional information, refer to the following website:
http://www.csagroup.org/services-industries/csa-marks/
1.1 SAFETY OF CUSTOMER EQUIPMENT

CORRUGATED STAINLESS STEEL TUBING (CSST)

MidAmerican Energy standard meter sets utilize the customer’s piping for support. To minimize stress on the customer’s piping, the preferred installation method is to use a rigid CSST Termination Fitting on the exterior wall to terminate the CSST (see Figure 7).

A Termination Fitting at the building wall creates a rigid connection point at the meter set. This is recommended by the manufacturer.

Alternative installation: If the customer’s CSST piping will be connected directly to MidAmerican Energy’s meter set, the contractor will have to inform MidAmerican Energy when applying for service so a special meter support can be installed (see Figure 7A). Failure to inform MidAmerican Energy that CSST will be connected to its meter will result in a charge to install the meter set support bracket.

The gas piping for the meter stub-out may be subject to local requirements such as size, location and material type. Check with your local governing authorities for more information.

BONDING

National Electrical Code (NEC), section 250.104(B): Other Metallic Piping: Where installed in or attached to a building or structure, metal piping system(s), including gas piping, that is likely to become energized shall be bonded to the service equipment enclosure, the grounded conductor at the service, the grounding electrode conductor where of sufficient size, or to the one or more grounding electrodes used. The bonding jumper(s) shall be sized in accordance with 250.122 using the rating of the circuit that is likely to energize the piping system(s).

The equipment grounding conductor for the circuit that is likely to energize the piping shall be permitted to serve as the bonding means.

The points of attachment of the bonding jumper(s) shall be accessible.

CSST is required to be bonded. All CSST must be bonded by a qualified person according to installation instructions.

If bonding outside near the gas meter, the customer shall not attach the bond to the MidAmerican Energy side of the gas meter.

Bonding CSST

Gas Piping Picture on the following page.
ONE CALL

It is the excavator’s responsibility to make certain that they plan and do their work in such a manner that damage to utility property does not occur. At least two (2) working days before starting actual construction work, call the appropriate "One Call" number to have Company facilities located. The excavator is responsible to maintain locate marks during construction work. Excavators should never assume the location or depth of underground gas pipelines.

The excavator should know and understand the one call laws for the state in which they are digging. Each state in MidAmerican Energy’s service territory publishes a Professional Excavator’s Manual or Excavator Handbook for informational purposes and as a reference. Check the one call website for your state to view a copy of the publication.

ONE CALL PHONE CONTACTS

<table>
<thead>
<tr>
<th>States</th>
<th>Dial</th>
<th>Website</th>
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<tr>
<td>Illinois</td>
<td>1-800-892-0123</td>
<td><a href="http://www.illinois1call.com">www.illinois1call.com</a></td>
</tr>
<tr>
<td>Iowa</td>
<td>1-800-292-8989</td>
<td><a href="http://www.iowaonecall.com">www.iowaonecall.com</a></td>
</tr>
<tr>
<td>Nebraska</td>
<td>1-800-331-5666</td>
<td><a href="http://www.ne1call.com">www.ne1call.com</a></td>
</tr>
<tr>
<td>South Dakota</td>
<td>1-800-781-7474</td>
<td><a href="http://www.sdonecall.com">www.sdonecall.com</a></td>
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REPORTING DAMAGE TO PIPELINES

If a pipeline of any material, the tracer wire for plastic pipe or the coating on a steel pipeline is damaged in any way, immediately contact MidAmerican Energy at 1-888-427-5632 so that inspection and/or repair can be made before backfilling. If the pipeline coating is damaged and MidAmerican Energy is notified before backfilling, the repair of the pipeline coating will be completed at no charge.
1.1 SAFETY OF CUSTOMER EQUIPMENT

Most underground steel gas pipelines have a protective coating that prevents corrosion of the pipe. The protective coating can be damaged by direct contact either by dumping backfill containing broken pieces of masonry, stones or other heavy objects into the excavation or by rubbing or bumping against the coated pipe with digging equipment. Once the coating is damaged, corrosion begins and leaks may quickly develop.

Failure to notify MidAmerican Energy in the event of damage to facilities may:
• jeopardize the safety and the lives of employees and the public,
• violate federal laws,
• violate state one call laws,
• risk damage to customer’s equipment,
• create costly project delays,
• create additional cost due to damage to other facilities.

Report any damage, regardless of how slight it might seem.

1.2 PROTECTION OF MIDAMERICAN ENERGY FACILITIES

PLACEMENT OF SPOIL

Spoil shall be located to minimize weight that may cause cave-ins on existing utilities. Prolonged storage over and near facilities shall be avoided. Spoil shall be arranged so rocks, concrete and other debris cannot fall into open cut trenches to damage exposed facilities.

Never cover valve or street boxes, manhole covers and other surface structures on MidAmerican Energy’s utility system.

CLEARANCE TO OTHER FACILITIES

There shall be a minimum of 12 inches of clearance between the gas facilities and all other underground structures or utilities.

BACKFILL REQUIREMENTS AROUND PIPELINES

Backfill material placed around underground utilities should be free from frozen dirt, broken concrete, rocks or other materials that could cause damage to the pipeline. Backfill must be properly compacted to minimize the possibility of settlement or washout.
1.2 PROTECTION OF MIDAMERICAN ENERGY FACILITIES

EXPOSING UNDERGROUND PIPELINES NEAR EXCAVATIONS

Where operators mark their underground facilities, excavators must observe a “tolerance zone”, an area eighteen (18) inches horizontally on either side of the marked facility. If excavation must occur directly above the facility or within the tolerance zone, excavators should hand-dig test holes to determine the location of the underground facilities. No equipment or machinery, other than accepted procedures, such as vacuum excavation, should be used for exposing underground facilities within the tolerance zone or above the utility. Operators do not locate for depth.

Tolerance Zone (Hand Digging Required)

Prior to any blasting operation, MidAmerican Energy shall be notified by calling 1-888-427-5632. MidAmerican will review the request and may require a Company representative to be on site during the blasting operations. One Call shall also be notified 48 hours in advance.

BLASTING

OPEN CUT TRENCHING

Gas facilities near open cut trenching must be braced, sheeted or shored to eliminate damage or stress to pipelines due to settlement or cave-in. Contact MidAmerican Energy at 1-888-427-5632 with questions or concerns regarding the adequacy of your protective system.
To determine if natural gas is available in your area, please contact MidAmerican Energy at 1-888-427-5632 or your Company representative.

All extensions of gas facilities will be installed according to the Company’s tariff. For further information, see Section 3.0 “Obtaining Gas Service” on pages 12-16 in this manual.

The nominal pressure delivered at the outlet of the meter to most customers is approximately 7 inches water column (" w.c.) (0.25 psig).

MidAmerican Energy may provide delivery pressure greater than 7 inches water column upon customer request. The following standard pressures may be available:

MidAmerican standard delivery pressures above 7” w.c.
10” water column
0.5 psig (14” w.c.)
1 psig
2 psig
5 psig
10 psig

For other delivery pressures, contact your Company representative.

- For less than 1 psig (28” w.c.) delivery pressure to a customer, the customer’s piping system must be able to receive, withstand and control 2 psig of gas pressure.
- For 1 psig (28” w.c.) or 2 psig delivery pressure to a customer, the customer’s piping system must be able to receive, withstand and control 5 psig of gas pressure.
- For 5 psig delivery pressure to a customer, the customer’s piping system must be able to receive, withstand and control 10 psig of gas pressure.
- For 10 psig delivery pressure to a customer, the customer’s piping system must be able to receive, withstand and control 20 psig of gas pressure.
2.0 AVAILABILITY AND CHARACTERISTICS OF SERVICE

DELIVERY PRESSURES

For delivery pressures of 2 psig or greater where gas piping serves appliances designed to operate at a gas pressure of 14” w.c. or less, overpressure protection devices shall be installed by the customer. Refer to NFPA 54 Section 5.9, Overpressure Protection Devices.

Piping systems serving equipment designed to operate at delivery pressures greater than 14” w.c. shall be equipped with overpressure protection devices adjusted to limit the gas pressure to each connected appliance as required by the equipment manufacturer’s installation instructions.

Upon inquiry by the customer, other higher delivery pressure options may be available. These special cases may require the execution of a contract between the customer and the Company. Not all pressures are available at all locations. Contact your Company representative for further information.

AVERAGE GROSS HEATING VALUE

The average gross heating value of gas received by the Company from its suppliers is expected to be approximately 1,000 BTU per cubic foot.
3.0 OBTAINING GAS SERVICE

INTRODUCTION
This section is provided to assist customers, developers and contractors in determining the requirements for gas main and service extensions. To avoid any unnecessary expense or delay to the customer, it is recommended that a Company representative be contacted at 1-888-427-5632, well before any construction or remodeling begins.

DEFINITIONS
Company equipment – MidAmerican Energy’s items carrying natural gas, such as valves, meters, regulators, relief valves that are normally installed above ground.

Company facilities – MidAmerican Energy’s natural gas carrying pipe and equipment installed below ground or above ground.

Gas main – The natural gas pipeline used for the purpose of delivering and distributing natural gas to or throughout large areas such as subdivisions or developments.

Gas service – The natural gas pipeline from the gas main to the inlet side of the regulator or gas meter for the purpose of serving a customer.

PROCEDURE FOR REQUESTING GAS MAIN

CUSTOMER RESPONSIBILITY
The following information is required for a gas main extension:
• Final plat map including 100% complete construction drawings in AutoCad or Microstation format and PDF, including civil plan and profile, master plan, lots, ROW, curb lines, public utility easements, other utilities, sidewalks, vicinity map, lot number or addresses, street names and legal description
• Number of single or multi-dwelling lots
• Location of existing or proposed utilities
• Location of public utility easements
• Detailed construction schedule, including site-ready date
• Storm Water Pollution Prevention Plan, if available
• Contact information for Civil Engineer, Construction Project Manager and customer to include:
  o Firm Name
  o Contact Name
  o Phone number
  o Email
  o Address

COMPANY RESPONSIBILITY
Gas main information is forwarded to MidAmerican Energy engineering for design. The main extension contribution or advance, if any, is calculated based upon the customers who are expected to attach to the extension and begin service within 30 days, unless a longer time is agreed upon, not to exceed one year.
3.0 OBTAINING GAS SERVICE

PROCEDURE FOR REQUESTING GAS MAIN

CUSTOMER CONTRIBUTION OR ADVANCE
MidAmerican Energy will send a proposal or extension agreement to the customer for review and approval. If approved, the customer shall return a signed agreement along with a check, letter of credit or other surety, where applicable, for payment of the main extension unless the timing of the contribution or advance has been modified by mutual agreement.

A MidAmerican Energy representative will notify the customer if there will be charges for adverse construction conditions or other permit fees as applicable.

PROCEDURE FOR REQUESTING GAS SERVICE

CUSTOMER RESPONSIBILITY
The following information is required for a service line installation:

• A completed and signed facility agreement, including addresses (See Appendix A)
• Site plan
• Location and number of meters required
• Delivery pressure required
• Size and type of gas burning equipment
• Special regulator requirements (boilers, grain dryers)
• Site-ready date

COMPANY RESPONSIBILITY
After the above-mentioned information and forms are received, gas service installation information is forwarded to engineering to prepare a design and cost estimate. Customer design requests will be accommodated, when possible, within Company rules and regulations.

CUSTOMER CONTRIBUTION
A MidAmerican Energy representative will notify the customer if there will be additional charges for excess footage, adverse construction conditions or other permit fees as applicable.

PROCEDURE FOR REQUESTING COMMERCIAL/INDUSTRIAL GAS SERVICE

CUSTOMER RESPONSIBILITY
The following additional information is required for a service line to a commercial / industrial facility:

• Final plat map including 100% complete construction drawings in AutoCad or Microstation format and PDF, including civil plan and profile, master plan, lots, ROW, curb lines, public utility easements, other utilities, sidewalks, vicinity map, addresses, street names and legal description
• Architectural floor plan and elevations in AutoCad or Microstation format and PDF noting customers preferred meter location showing doors, windows, grilles, etc.
3.0 OBTAINING GAS SERVICE

PROCEDURE FOR REQUESTING COMMERCIAL/INDUSTRIAL GAS SERVICE

- Contact information for: Civil Engineer, Construction Project Manager and customer to include:
  - Firm Name
  - Contact Name
  - Phone number
  - Email
  - Address
- Total connected load (load of each equipment unit) (any existing load)
- Overall plat master plan and plat phasing (if available)

COMPANY RESPONSIBILITY
After the above-mentioned information and forms are received, gas service installation information is forwarded to engineering to prepare a design and cost estimate. Customer design requests will be accommodated, when possible, within Company rules and regulations.

CUSTOMER CONTRIBUTION
A Company representative will notify the customer if there will be additional charges for excess footage, adverse construction conditions or other permit fees as applicable.

TEMPORARY SERVICE
If sufficient system capacity exists at the proposed location, temporary service may be available. Before temporary service begins, a customer will need to:

- Sign a written agreement for temporary service for a specified period
- Pay all costs of the installation and removal
- Provide a suitable support for the meter and appurtenances
- Receive city or county approval, if needed

Temporary service is not available in Illinois.
3.0 OBTAINING GAS SERVICE

REQUIREMENTS FOR SCHEDULING WORK FOR MAIN AND/OR SERVICE

The customer should provide an approximate need date for installation. MidAmerican Energy personnel will inspect site for readiness and, if appropriate, will schedule work to be done. The customer is responsible to have site ready for construction by completing the following items:

MAIN
• Curb and gutter or street paving in new plat areas should be installed, as well as water and sewer, before gas mains will be extended.
• All necessary easements and permits for gas utilities that are required to be obtained by customer/developer have been obtained.
• Lot corners are pinned and/or staked, and marked, where applicable.
• Easements are staked, where applicable.
• Ground must be within four (4) inches of final grade where Company facilities are to be installed.
• All material and obstructions must be removed from path where Company facilities are to be installed.
• The location of any customer-owned underground facilities (i.e. fuel lines, sanitary sewer / septic lines, sump pump lines, watering systems, satellite TV cables, etc.) must be identified and clearly marked.
• Executed agreements and customer advance has been received, as applicable.
• The developer is required to maintain all erosion control.

SERVICE
• Address must be clearly posted at property.
• Lot corners are pinned and/or staked, and marked, where applicable.
• Easements are staked, where applicable.
• Ground must be within four (4) inches of final grade where Company facilities are to be installed.
• Foundation or meter site must be backfilled and properly compacted to prevent settling.
• A gas riser bracket, meter bracket, or other means of support shall be installed where applicable.
• All material and obstructions must be removed from path where Company facilities are to be installed.
• The location of any customer-owned underground facilities (i.e. fuel lines, sanitary sewer / septic lines, sump pump lines, watering systems, satellite TV cables, etc.) must be identified and clearly marked.
• All necessary easements and permits for gas utilities that are required to be obtained by customer have been obtained.
• The customer is required to maintain all erosion control.
3.0 OBTAINING GAS SERVICE

ADVERSE CONSTRUCTION CONDITIONS

MidAmerican Energy will apply an additional charge for all gas main extensions and on some services when adverse construction conditions exist. Typical “adverse construction conditions” include, but are not limited to, severe ground frost, unusually muddy or rugged terrain, rock, and/or inordinate amounts of unforeseen obstructions. The customer will be notified when it is necessary to apply these charges.

PERMITS

If customers are located in areas where special permits are required (railroad crossing, interstate crossing, etc.), allow additional time for gas main and service installation. Special permit requirements can extend construction times and/or increase expense to the customer.

RESIDENTIAL AND COMMERCIAL METER SETS

The gas meter for a new residential or commercial service will be installed at the time of service installation or as soon as practical after the service line is installed. The service will be secured by locking the service shutoff valve in the closed position to prevent flow of gas to the customer.

METER TURN ON

Meters on new gas service installations will not be turned on until the customer piping is connected to the gas meter outlet. MidAmerican Energy must be contacted a minimum of 48 hours (excluding Saturdays, Sundays and legal holidays) before the gas service turn on is required.

The customer is responsible for the following requirements in order for MidAmerican Energy to perform this check and turn on the gas meter:

- Where applicable, local inspections must be completed and the inspecting authority must notify MidAmerican Energy of the inspection release
- All valves are to be in the closed position
- All pipe ends shall be capped
- All individual fuel lines on multiple meter sets shall be permanently marked (see page 19)

MidAmerican Energy will perform a no-flow check on all meters to be turned on to ensure the customer piping is gas tight. If the no-flow check fails, the meter will remain locked in the off position and the customer will be contacted to make repairs.

Important! The plumber, builder or owner is responsible to ensure all requirements have been met to have gas service turned on. Contact MidAmerican Energy at 1-888-427-5632 or your Company representative to initiate a gas service turn on order or inquire about the status of your service.
4.0 REQUIREMENTS FOR SERVICE INSTALLATIONS

INTRODUCTION
This section relates to MidAmerican Energy’s requirements for gas service piping installations.

NUMBER OF SERVICES TO A BUILDING
In the case of a single property with several adjacent buildings, the allowable footage will only be applied to one building. Exceptions may apply; refer to the current tariff for your state.

Only one service will be installed to a building. Units separated by a firewall, as determined by city code, will be treated as separate buildings.

MidAmerican Energy’s service lines will not be extended inside a building from one tenant’s basement to another tenant’s basement, or from one building to another.

For multiple occupancy buildings, a single service may be installed to facilitate the banking of meters. If the building has more than one floor level, all meters for occupancy units above the first floor shall be installed at ground level.

SERVICE LINE ACCESS
MidAmerican Energy’s gas service line will generally be installed in a straight line perpendicular to the gas main and shall be routed in a manner as to be accessible for future maintenance.

Gas service lines will not be installed beneath buildings or structures. When a building or structure is proposed to be constructed over a service line, the service will be moved at the customer’s expense. For further information, see Section 7.0, “Modification of Company Gas Facilities” on page 22 in this manual.

PLACEMENT OF STRUCTURES NEAR GAS FACILITIES
Please notify MidAmerican Energy before installing any of these items: decks, porches, gazebos, pools, fire pits, sheds, garages, etc. These items shall not be located over a main or service line.

Contact MidAmerican Energy at 1-888-427-5632 or your Company representative to notify them or if you have any questions.

SHUT-OFF VALVES
All new gas service lines shall have an accessible shut-off valve outside of the building. MidAmerican Energy will install and maintain this valve.
5.0 REQUIREMENTS FOR GAS METER SETS

INTRODUCTION
This section relates to MidAmerican’s requirements for gas meter installations.

ADVANCE NOTICE
The customer or the customer’s agent is requested to consult MidAmerican in advance on any matters pertaining to the location and type of meter installation required, the size and operating characteristics of gas burning equipment, the gas pressures available, and the plans and procedures for connecting the equipment. For more information, see Section 3.0, “Obtaining Gas Service”, pages 12-16 in this manual.

METER LOCATION
All meters shall be installed outdoors at a point agreeable to the property owner or building contractor and MidAmerican. Each meter must be installed in a readily accessible location, generally on the front one-half of the structure (See Figure 1), and be protected from damage. If it is not possible to meet these requirements, the installation will be considered a special case and must be approved by MidAmerican.

One metering location will be allowed for each building. Exceptions must be approved by MidAmerican.

Meters shall be located in an accessible area. The meter shall not be located where the flow from a downspout overflow or sump pump line could cause an accumulation of ice on the gas meter set or where future construction may require meter relocation.

The customer shall provide adequate working space for MidAmerican personnel to maintain the metering and regulating equipment as follows:

- Six (6) feet head clearance above grade
- Three (3) feet from the front of the meter
- One (1) foot to either side of the meter
- Six (6) feet of level ground to any retaining walls or other sudden drop offs in front of the meter

PROTECTION OF METER FACILITIES
To provide customer safety, all meter facilities subject to vehicular traffic shall be protected from damage. Protection against damage is the responsibility of the customer. The customer shall furnish and install physical barriers to protect the meter facilities as specified by the Company (See Figures 20 and 21). Failure by the customer to provide the necessary protection may result in MidAmerican installing the protection at the customer’s expense.
5.0 REQUIREMENTS FOR GAS METER SETS

CLEARANCE REQUIREMENTS FOR REGULATOR VENT

For vertical and horizontal clearance requirements from the regulator vent, refer to Figures 2 - 5.

For clearance requirements from an industrial gas meter set to the power supply for a telecommunications box (EC350 Cell Phone Design), refer to Figure 19.

If clearances are not maintained, the customer shall pay all necessary expenses to bring the installation into compliance.

Local codes may require a greater clearance. Check with your local governing authorities.

TYPICAL METER CONFIGURATIONS

The various configurations and dimensions of MidAmerican Energy’s typical meter sets are shown in Figures 6 - 18. The meter sets shown are based upon the load capacity required by the customer.

An alternate metering configuration may be designed by MidAmerican Energy due to special load requirements or due to limited construction space.

DELIVERY POINT

The delivery point will be the outlet side of the MidAmerican Energy meter set or at the connection to the customer’s fuel piping, whichever is further downstream. Fuel line piping shall be installed in a manner that avoids undue strain on the meter.

MARKING MULTIPLE METERS AT ONE LOCATION

MidAmerican Energy will not install multiple meters at one location unless the customer’s individual fuel lines are clearly and permanently marked or identified by address, apartment number, unit number, etc.

Permanent marking methods include paint, metal tags, or another method approved by the Company representative. Felt tip “permanent” markers are not acceptable as these quickly fade.
INTRODUCTION
The requirements of this section shall apply to the installation and connection of gas service to all manufactured homes (mobile homes, trailers, manufactured homes).

SAFETY CODES AND REGULATIONS
All gas appliances installed must meet the specifications of NFPA 501A for Manufactured Home Installations and NFPA 54 (National Fuel Gas Code). Gas water heaters and furnaces must be designed and labeled for mobile home use. Where the local governing authorities have established more stringent requirements, those requirements shall prevail.

CUSTOMER OWNED FUEL PIPING
MidAmerican Energy does not inspect or maintain customer-owned fuel piping beyond the delivery point. MidAmerican Energy recommends calling a qualified plumbing and heating dealer for an inspection. Customer-owned fuel piping must comply with National Fuel Gas Code NFPA 54 and 501A requirements or other local codes, whichever is more stringent. Check with your local governing authorities.

An approved manufactured home connector shall be connected to rigid piping that extends outside the skirting of the home, refer to Figure 8.

To meet these requirements, the customer is responsible for completing periodic leak inspections and taking preventative action to control corrosion on metallic pipes. Repairs should be made immediately to correct any unsafe conditions.

EASEMENT REQUIREMENTS
Installation of gas mains in manufactured home parks must be made on platted public utility easements or on a specifically granted gas easement to MidAmerican Energy. MidAmerican Energy requires that easements be obtained for all gas mains before installation of any facilities. Mains shall be installed in manufactured home parks along the street or roadway, not on the back lot line, unless otherwise authorized by engineering.

PLACEMENT OF MANUFACTURED HOME NEAR GAS FACILITIES
Customer must provide adequate space for installation of Company facilities. A manufactured home must maintain a distance of five (5) feet from the gas main or gas service. If this is not practical, contact your MidAmerican Energy Company representative at 1-888-427-5362.

If a manufactured home or other structure (decks, porches, gazebos, pools, fire pits, sheds, etc.) is placed over a gas main or service, the manufactured home or other structure must be moved. If this is not practical, the customer or property owner shall reimburse the Company for relocating the gas main or service.
### 6.0 MANUFACTURED HOMES

#### LOCATION OF SERVICE TERMINATION
MidAmerican Energy will install the service riser at the side of the manufactured home.

Services will typically terminate 3 feet from the side of the manufactured home at a point within the rear third of the pad. Customer-owned piping must be properly supported.

#### ANCHORING
Manufactured homes shall be properly anchored prior to the meter being turned on.

#### CONNECTORS
Connectors between the meter outlet and the manufactured home shall be a flex-type connector approved by CSA for outdoor use. Other connectors may be allowed by local governing authorities. The customer shall furnish and install this connector.
7.0 MODIFICATION OF COMPANY GAS FACILITIES

NOTIFICATION REQUIREMENTS

The customer shall notify the Company in advance of any work that may require the relocation, replacement or modification of Company facilities.

Some examples of customer modification work are:
- Garages or sheds
- Porches
- Pools
- Building additions or remodeling
- Landscaping
- Gazebos
- Fire pits
- Decks

Substantial changes to load such as, but not limited to:
- installation or removal of a natural gas generator
- installation or removal of tankless on-demand water heater

MODIFICATION OF GAS FACILITIES

The customer or property owner shall reimburse the Company for the costs incurred in relocating or replacing the Company facilities under the following conditions:
- Structural changes to an existing building or addition of a new building which would result in a safe service piping arrangement becoming hazardous according to Company standards
- Gas meter, riser or meter shutoff valve becomes buried due to changes in grade
- Bottom of riser or service pipe becomes exposed/shallow due to changes in grade
- Modifications for the convenience or at the request of the customer or property owner

METER RELOCATIONS

When a customer requests a gas meter to be moved, the customer may be charged for the relocation. Additionally, the customer is required to have a qualified contractor install all necessary customer-owned fuel line piping to the new delivery point. A city/county inspection may also be required.

If MidAmerican Energy performs a planned replacement of the customer’s gas service within 12 months of the meter being moved from inside to outside, the customer will be refunded the MidAmerican Energy charges.

AUTHORIZATION

Written authorization shall be obtained from the customer or property owner before work is started. Billing shall be based on the cost estimate prepared by a Company representative.

The entire cost of the relocation will be billed to the customer unless the modification is mutually beneficial. In such instances, the cost may be shared on a basis agreeable to both the customer or property owner and the Company.
8.0 DIVERSION OF SERVICE OR TAMPERING

INTRODUCTION
MidAmerican Energy is legally authorized through its tariffs to recover losses associated with diversion of service, unauthorized use of service, etc.

Unauthorized use of service occurs when a person receives benefit of metered utility service without MidAmerican Energy’s consent. Diversion of service is illegally tampering with or bypassing Company equipment with the intent of stealing/benefiting from unmetered utility service. Tampering is interfering with the operation of Company equipment.

PROHIBITED ACTIONS
The following actions are prohibited:
• Opening or damaging Company locks
• Breaking/removing seals on meters or regulators
• Tampering with, moving, or removing Company equipment
• Bypassing the meter
• Interference with operation of Company equipment
• Unauthorized work performed on meter installations or other property of the Company

DISCONNECTION
The Company may disconnect service to the customer without notice in the event of such diversion or tampering. In such cases, the meter and metering equipment may be removed.

CUSTOMER COST
The customer shall be responsible for payment of all costs incurred as a result of unauthorized use, diversion of service or tampering. The customer may also be back-billed for estimated/approximate consumption charges and the customer may also be required to relocate their gas meter and associated service to the outside of the premises to allow 24-hour access to the meter. This will be done at the customer’s expense. Service will not be restored until all required payments are received.

DOCUMENTATION
Each incident will be documented on the customer’s account. Incidents may be reported to local authorities.
GAS SERVICE MANUAL

FIGURES
FIGURE 1
PREFERRED LOCATION OF GAS METER SET

NOTES:
1 Preferred meter location is along a side wall, within the front six (6) feet from of the front corner as shown.
2 Meter sets will not be approved on the back side of a structure, including behind a garage.
3 The customer is responsible to provide damage protection for the gas meter set (examples include damage from vehicular traffic, lawn mowing equipment, etc.). Refer to Figure 20, “Typical Meter Barricade” and Figure 21 “Typical Meter Barricade Footing”).
4 Decks, plantings, landscaping, retaining walls or other structures should be placed as to not prohibit MidAmerican Energy personnel from readily accessing the meter and shut-off valve.
FIGURE 2
CLEARANCE ZONE REQUIREMENTS FROM VENTS AND AIR INTAKES

NOTES:
1. Local codes may require a greater clearance. Check with your local governing authorities.
2. The distance between the gas riser and the regulator vent opening is approximately six (6) inches on a typical regulator.
FIGURE 3
CLEARANCE ZONE REQUIREMENTS FROM DOORS AND WINDOWS

NOTES:
1. This clearance requirement applies to all windows and doors that are designed to be opened.
2. Local codes may require a greater clearance. Check with your local governing authorities.
3. The distance between the gas riser and the regulator vent opening is approximately six (6) inches on a typical regulator.
FIGURE 4
CLEARANCE ZONE REQUIREMENTS FROM ELECTRICAL SOURCE*

NOTES:
* - An electrical source is an electrical device which can automatically be energized without human intervention at the location of the device.

1. Additional clearance requirements may apply. Contact your Company representative for details.
2. Local codes may require a greater clearance. Check with your local governing authorities.
It is recommended that the gas meter be set a minimum of three (3) feet from the electric meter.
* Call your Company representative for the specific dimensions for your installation.

**NOTES:**

1. Riser bracket shall be installed with the bottom of the bracket within four (4) inches of final grade.
2. Riser bracket shall be attached to the building using four (4) bolts.
3. Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
4. All measurements are approximate.
NOTES:

1. Customer shall notify the Company representative when using corrugated stainless steel tubing (CSST) from the exterior wall to gas meter set as this installation may require a special foundation bracket.

2. CSST must be bonded. See bonding requirements for exterior CSST on page 6.
FIGURE 7A
RESIDENTIAL METER SET FOR FLEXIBLE CUSTOMER PIPING (ALTERNATE)

NOTES:
1 Customer shall notify the Company representative when using corrugated stainless steel tubing (CSST) from the exterior wall to gas meter set as this installation may require a special foundation bracket.
2 CSST must be bonded. See bonding requirements for exterior CSST on page 6.
3 All measurements are approximate.
FIGURE 8
TYPICAL RESIDENTIAL METER SET FOR MANUFACTURED HOMES

NOTES:
1. Customer will supply and install an approved manufactured home connector, which shall be connected to rigid piping that extends outside the skirting of the home.
2. MidAmerican Energy will supply and install the required meter post.
3. All measurements are approximate.
FIGURE 9
TYPICAL 2-METER MANIFOLD

NOTES:
1  Riser bracket shall be installed with the bottom of the bracket within four (4) inches of final grade.
2  The customer may be required to install additional support brackets. Prior to installation of support brackets, contact Company representative for specific requirements.
3  Riser bracket shall be attached to the building using four (4) bolts.
4  Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
5  All measurements are approximate.
6  Alternate meter configurations may be available.
FIGURE 10
TYPICAL 4-METER MANIFOLD

NOTES:
1. Riser bracket shall be installed with the bottom of the bracket within four (4) inches of final grade.
2. The customer may be required to install additional support brackets. Prior to installation of support brackets, contact Company representative for specific requirements.
3. Riser bracket shall be attached to the building using four (4) bolts.
4. Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
5. All measurements are approximate.
6. Alternate meter configurations may be available.
FIGURE 11
TYPICAL 8-METER MANIFOLD, UNISTRUT DESIGN

NOTES:
1. Where required, the riser bracket shall be installed with the bottom of the bracket within four inches of final grade.
2. Where required, the customer shall install unistrut supports.
3. The customer may be required to install additional support brackets. Prior to installation of any support brackets, contact Company representative for specific requirements.
4. Riser bracket shall be attached to the building using four (4) bolts.
5. Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
6. All measurements are approximate.
7. Alternate meter configurations may be available.
FIGURE 12
TYPICAL 10-METER MANIFOLD, UNISTRUT DESIGN

NOTES:
1 Where required, the riser bracket shall be installed with the bottom of the bracket within four inches of final grade.
2 Where required, the customer shall install unistrut supports.
3 The customer may be required to install additional support brackets. Prior to installation of any support brackets, contact Company representative for specific requirements.
4 Riser bracket shall be attached to the building using four (4) bolts.
5 Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
6 All measurements are approximate.
7 Alternate meter configurations may be available.
FIGURE 13
TYPICAL 12-METER MANIFOLD, UNISTRUT DESIGN

NOTES:
1. Where required, the riser bracket shall be installed with the bottom of the bracket within four inches of final grade.
2. Where required, the customer shall install unistrut supports.
3. The customer may be required to install additional support brackets. Prior to installation of any support brackets, contact Company representative for specific requirements.
4. Riser bracket shall be attached to the building using four (4) bolts.
5. Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
6. All measurements are approximate.
7. Alternate meter configurations may be available.
FIGURE 14
TYPICAL METER SET FOR LOADS OF 300 TO 800 CFH

NOTES:
1. Riser bracket shall be installed with the bottom of the bracket within four (4) inches of final grade.
2. The customer may be required to install additional support brackets. Prior to installation of support brackets, contact Company representative for specific requirements.
3. Riser bracket shall be attached to the building using four (4) bolts.
4. Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
5. All measurements are approximate.
6. Alternate meter configurations may be available.
NOTES:

1. Riser bracket shall be installed with the bottom of the bracket within four (4) inches of final grade.
2. The customer may be required to install additional support brackets. Prior to installation of support brackets, contact Company representative for specific requirements.
3. Riser bracket shall be attached to the building using four (4) bolts.
4. Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
5. All measurements are approximate.
6. Alternate meter configurations may be available.
NOTES:
1 Meter set length and height may vary. Consult a Company representative to discuss space required for meter set.
2 Height of customer fuel piping is typically between 12 inches and 24 inches above final grade.
3 Delivery point is a two (2) inch flat face flange. For all above grade installations that have flange connections, a minimum of two (2) threads showing after tightening is required. Consult a Company representative if an alternate connection type is desired.
4 Riser bracket shall be installed with the bottom of the bracket within four (4) inches of final grade.
5 Riser bracket shall be attached to the building using four (4) bolts.
6 Customer is to provide and install unistrut supports.
7 Customer is to contact the Company representative for unistrut specifications prior to installation.
8 Anchors or suitable masonry fasteners shall be used to prevent pull-out of the unistrut supports.
9 All measurements are approximate.
10 Alternate meter configurations may be available.
FIGURE 17
TYPICAL METER SET FOR LOADS OF 3500 TO 7000 CFH, UNISTRUT DESIGN

NOTES:
1 Meter set length and height may vary. Consult a Company representative to discuss space required for meter set.
2 Height of customer fuel piping is typically between 12 inches and 24 inches above final grade.
3 Delivery point is a three (3) inch flat face flange. For all above grade installations that have flange connections, a minimum of two (2) threads showing after tightening is required. Consult a Company representative if an alternate connection type is desired.
4 Riser bracket shall be installed with the bottom of the bracket within four (4) inches of final grade.
5 Riser bracket shall be attached to the building using four (4) bolts.
6 Customer is to provide and install unistrut supports.
7 Customer is to contact the Company representative for unistrut specifications prior to installation.
8 Anchors or suitable masonry fasteners shall be used to prevent pull-out of the unistrut supports.
9 All measurements are approximate.
10 Alternate meter configurations may be available.

IF YOU SMELL GAS, CONTACT MIDAMERICAN AT 1-800-595-5325
NOTES:
1. Meter set length and height may vary. Consult a Company representative to discuss space required for meter set.
2. Height of customer fuel piping is typically between 12 inches and 24 inches above final grade.
3. Delivery point is a two (2) inch flat face flange. For all above grade installations that have flange connections, a minimum of two (2) threads showing after tightening is required. Consult a Company representative if an alternate connection type is desired.
4. Riser bracket shall be installed with the bottom of the bracket within four (4) inches of final grade.
5. Riser bracket shall be attached to the building using four (4) bolts.
6. Customer is to provide and install unistrut supports.
7. Customer is to contact the Company representative for unistrut specifications prior to installation.
8. Anchors or suitable masonry fasteners shall be used to prevent pull-out of the unistrut supports.
9. All measurements are approximate.
10. Alternate meter configurations may be available.
FIGURE 19
EC350 CELL PHONE DESIGN - CLEARANCE ZONE REQUIREMENTS TO TELECOMMUNICATIONS BOX POWER SUPPLY

CUSTOMER REQUIREMENTS:
1. Mount AC power supply a minimum of 15 feet from meter
2. Mount a dedicated 120 volt, minimum 10 amp, 4 plug outlet AC ground fault circuit interrupter (GFCI) duplex receptacle in the fiberglass enclosure provided.
3. The GFCI duplex receptacle must be installed correctly and properly grounded before any installation of MidAmerican equipment will be completed.
4. Install a 3/4 inch conduit with a seal off from the fiberglass enclosure to within 3 feet of the device. MidAmerican will provide the wire that will be pulled through the conduit.
5. Lines shown in red on the typical meter set drawing are the responsibility of the customer.
FIGURE 20
TYPICAL METER BARRICADE

Note:
To maintain clearance for future maintenance, locate post ‘A’ first and all others four (4) feet from post ‘A’.

RECOMMENDATIONS:

RESIDENTIAL / SMALL COMMERCIAL
- One two inch diameter steel vertical post – concrete filled
- Height three (3) feet above ground or to the height of the gas-carrying equipment being protected, whichever is less

COMMERCIAL / INDUSTRIAL
- Two (2) posts that are four (4) inch diameter steel vertical posts – concrete filled
- Height three and one-half feet above ground or to the height of the gas-carrying equipment being protected, whichever is less
- Concrete filled
- Install protective post sleeves over the steel barricade post to enhance visibility

NOTES:
1. Additional posts may be required by MidAmerican Energy. Contact your Company representative to discuss the proper barricade configuration for your specific installation.
2. When field conditions do not permit compliance with these recommendations, consult with your Company representative for an alternative design.
3. Alternative meter guard arrangements must sufficiently protect the meter set and ensure adequate distance for maintenance and meter reading.
4. For footing information, refer to Figure 21.
FIGURE 21
TYPICAL METER BARRICADE FOOTING

BARRICADE CROSS SECTION DETAIL

- 2" Concrete Filled Pipe
  For Residential/Small Commercial Meter Sets
- 4" or 6" Concrete Filled Pipe
  For Commercial/Industrial Meter Sets
- Paving or Finished Grade
- 3000 PSI
  CONCRETE
- 6" FOR 2" PIPE
  12" FOR 4" PIPE
  18" FOR 6" PIPE

NOTE:
BARRICADE HEIGHT ABOVE GRADE MAY BE REDUCED AS LONG AS THE GAS CARRYING EQUIPMENT IS PROTECTED.
GAS SERVICE MANUAL

APPENDICES
APPENDIX A
GAS SERVICE FACILITY APPLICATION AGREEMENT (65-7) FRONT

THE MOST CURRENT VERSION OF THE APPLICATION AGREEMENT IS AVAILABLE AT MIDAMERICANENERGY.COM.

MidAmerican Energy
GAS SERVICE FACILITY APPLICATION AGREEMENT

<table>
<thead>
<tr>
<th>ACCOUNT NUMBER:</th>
<th>GAS MAIN WR#:</th>
<th>GAS SERVICE WR#:</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICATION TAKEN BY:</td>
<td>SERVICE CENTER:</td>
<td>DATE:</td>
</tr>
<tr>
<td>SERVICE ADDRESS*:</td>
<td>UNIT#:</td>
<td>CITY*:</td>
</tr>
<tr>
<td>STATE*:</td>
<td>ZIP*:</td>
<td>COUNTY*:</td>
</tr>
<tr>
<td>SUBDIVISION NAME*:</td>
<td>LOT#:</td>
<td></td>
</tr>
<tr>
<td>RESPONSIBLE BILLING PARTY*:</td>
<td>WK PH*:</td>
<td>HMMBL PH*:</td>
</tr>
<tr>
<td>MAILING ADDRESS*:</td>
<td>CITY*:</td>
<td>STATE*:</td>
</tr>
<tr>
<td>Select one*:</td>
<td>Select one*:</td>
<td>Select all that apply*:</td>
</tr>
<tr>
<td>NEW BLDG</td>
<td>RESIDENTIAL</td>
<td>COMMINDUS</td>
</tr>
<tr>
<td>EXISTING</td>
<td>MOBILE HOME</td>
<td>APARTMENT</td>
</tr>
</tbody>
</table>

GAS

| PLBG/HTG CONTR*: | PHONE*: |
| TOTAL # OF METERS: | DELIVERY PRESSURE NEEDED*: | MAX EMERGENCY PRESSURE: |
| WILL CUSTOMER HAVE CORRUGATED STAINLESS STEEL TUBING (CSST) CONNECTED TO THE OUTLET OF THE METER? | YES | NO |
| PRESENT LOAD: | BTU's | RATE | APPROPRIATE CHARGES |
| NEW LOAD: | BTU's | HEATING | WATER HEATING | FIREPLACE | COOKING | PROCESS | OTHER |
| TOTAL LOAD: | BTU's |

FOR RATE DETERMINATION

| Main Heat Source*: | Backup Heat Source*: | Water Heat Source*: |
| ELECTRIC | GAS | OTHER |
| ELECTRIC | GAS | OTHER |
| ELECTRIC | GAS | OTHER |

Remarks:

Diagram of facility location. Indicate north arrow and desired meter location.

☐ Check box if drawing is attached.

Applicant shall locate and mark all privately owned underground facilities and systems (including but not limited to water services. Culverts, irrigation systems, drain pipes, septic lines, and underground wiring) to conform with the current version of Recommended Guidelines for Underground Utilities and the uniform color code established by the American Public Works Association, prior to MidAmerican Energy Company's construction.

The undersigned has read the back and front of this application and requests MidAmerican Energy to install and/or repair gas and/or electric facilities on the property listed above. The applicant agrees to comply with all applicable codes, rules, regulations, and MidAmerican Energy's tariffs, electric service manual, and gas service manual as filed with the appropriate state utilities board or commission. Failure to comply may result in charges.

APPLICANT AGENT SIGNATURE | DATE OR | APPLICANT SIGNATURE | DATE

See additional requirements and terms on the back of this application.
APPENDIX A
GAS SERVICE FACILITY APPLICATION AGREEMENT
(65-7 OR 65-7A) BACK

THE MOST CURRENT VERSION OF THE APPLICATION AGREEMENT IS
AVAILABLE AT MIDAMERICANENERGY.COM.

A drawing of the proposed gas and/or electric meter location must be included on the front of or with this application. The gas and/or electric meter location must be approved by your local MidAmerican Energy customer contact before any work is started. MidAmerican Energy shall have the sole right to determine the location of the service lines and meters.

Applicants for service to commercial, industrial or residential buildings including multifamily dwellings, should obtain from MidAmerican Energy information regarding gas pressure, voltage, transformers, metering, etc. before starting construction.

Applicant will provide, without cost to MidAmerican Energy, such easements as are necessary for the installation and maintenance of MidAmerican Energy’s facilities on private property within the area served. No building shall be constructed and/or changes made in ground elevation by the grantor within MidAmerican Energy’s easement area without written permission from MidAmerican Energy indicating that said construction and/or ground elevation changes will not interfere with MidAmerican Energy’s rights to operate and maintain its facilities.

The Applicant is responsible for ensuring that all gas piping and any other gas and/or electric equipment is properly installed and adjusted in accordance with local and national codes and MidAmerican Energy requirements. Consistent with MidAmerican Energy’s Tariffs, no inspection by MidAmerican Energy, or failure to object to the applicant’s installation, shall render MidAmerican Energy liable for any damage or injury caused by problems with the applicant’s equipment and facilities. Any inspection of applicant’s equipment or piping by MidAmerican Energy during service installation, pilot lighting or leak investigation is for the sole purpose of determining whether MidAmerican Energy owned equipment is operating properly.

Applicant agrees to indemnify, protect and hold harmless MidAmerican Energy from and against all liability, damage, loss, claims and actions of any nature whatsoever which arise out of contacts with electric or gas facilities that occur as a result of the applicant’s negligence or noncompliance with any and all terms of this Agreement.

The installation of service is subject to MidAmerican Energy’s tariff on file with, and as may be amended by, the respective Public Utility Commissions in Illinois, Iowa, Nebraska, and South Dakota.

If applicant requires that the installation be completed during the winter construction season, an additional non-refundable charge may be billed. MidAmerican Energy reserves the right to determine when such winter construction season exists and the extra associated cost. Your local MidAmerican Energy customer contact can provide current dates and costs.

Contact your local MidAmerican Energy Customer Technician for service installation costs for your service type. Installation costs are based on machine trenching in normal soil. Additional charges may be billed for unusual conditions incurred, such as rock or buried obstructions.

MidAmerican Energy will not replace sod nor be responsible for lawn or landscape restoration due to the installation of the gas and/or electric service lines.

MidAmerican Energy will schedule the installation of the gas and/or electric service lines after the applicant’s premise and site is prepared and inspected for readiness by MidAmerican Energy. MidAmerican Energy will not be liable for any delays in the installation of the gas and/or electric service facilities.

Note: Site readiness is determined by the following:

☐ The foundation shall be backfilled and the ground shall be within 4” of final grade where the gas and electric services are to be installed. Note: Ground at meter site shall be backfilled and properly compacted to prevent settling.

☐ All material and obstructions shall be removed from the route and area where the gas and electric services and meters are to be installed.

☐ The gas riser bracket or meter bracket shall be installed where applicable. Fuel lines must be permanently marked with the service address.

☐ The electric meter socket shall be installed and entrance wiring approved by the local electrical inspector where applicable. Electric sockets must be permanently marked with the service address. MidAmerican Energy’s Electric Service Manual describes the method for marking.

☐ Address and lot number shall be clearly posted at property prior to installation of gas and/or electric service being scheduled.

☐ See your local MidAmerican Energy customer contact for other possible requirements.

IOWA ONLY – The Applicant does hereby certify that the structure served by the gas and/or electric service lines (if intended primarily for human occupancy and if completed after April 1, 1984) meets the energy conservation standards as contained in the Iowa Administrative Code Section 681-16.800 (103a) known as the “Iowa State Building Code Thermal and Lighting Efficiency Standards.”

See MidAmerican Energy’s Gas Service Manual and MidAmerican Energy’s Electric Service Manual for installation requirements for your gas and electric services. Copies of both books are available to the applicant upon request.
APPENDIX A
GAS / ELECTRIC SERVICE FACILITY APPLICATION AGREEMENT (2-100) FRONT

CONTACT MIDAMERICAN ENERGY TO DETERMINE IF THIS IS THE CURRENT VERSION OF THIS FORM.

<table>
<thead>
<tr>
<th>MidAmerican Energy</th>
<th>GAS/ELECTRIC SERVICE FACILITY APPLICATION AGREEMENT</th>
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<tr>
<td>ACCOUNT NUMBER:</td>
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<tr>
<td>APPLICATION TAKEN BY:</td>
<td>SERVICE CENTER</td>
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<td>SERVICE ADDRESS:</td>
<td>UNIT#</td>
</tr>
<tr>
<td>STATE*</td>
<td>ZIP*</td>
</tr>
<tr>
<td>RESPONSIBLE BILLING PARTY*</td>
<td>WK PH*</td>
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<tr>
<td>MAILING ADDRESS:</td>
<td>CITY*</td>
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<td>Select one:*</td>
<td>Select one:*</td>
</tr>
<tr>
<td>NEW BLDG</td>
<td>RESIDENTIAL</td>
</tr>
<tr>
<td>EXISTING</td>
<td>COMM/INDUS</td>
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<tr>
<td>Is this a conversion?</td>
<td>YES</td>
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<tr>
<td>ELECTRICAL CONTRACTOR:</td>
<td>PHONE #:</td>
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<td>TEMPORARY</td>
<td></td>
</tr>
<tr>
<td>VOLTAGE*:</td>
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<tr>
<td>AMPS*:</td>
<td>OH</td>
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<tr>
<td>PHASES*:</td>
<td>UG</td>
</tr>
<tr>
<td>WIRE SIZE*:</td>
<td></td>
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<tr>
<td>Is a transformer needed for the temp?</td>
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<tr>
<td>RATE:</td>
<td>APPROXIMATE CHARGES: $</td>
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<tr>
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<tr>
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<td>Select one*:</td>
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<td>AMPS*:</td>
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<td>CUST INST</td>
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<td>RATE:</td>
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<td>PLBG/HTG CONTR*:</td>
<td>PHONE:</td>
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<tr>
<td>TOTAL # OF METERS:</td>
<td>DELIVERY PRESSURE NEEDED*:</td>
</tr>
<tr>
<td>WILL CUSTOMER HAVE CORRUGATED STAINLESS STEEL TUBING (CSST) CONNECTED TO THE OUTLET OF THE METER?</td>
<td>YES</td>
</tr>
<tr>
<td>PRESENT LOAD:</td>
<td>BTU's</td>
</tr>
<tr>
<td>NEW LOAD:</td>
<td>BTU's</td>
</tr>
<tr>
<td>TOTAL LOAD*:</td>
<td>BTU's</td>
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<tr>
<td>RATE:</td>
<td>APPROXIMATE CHARGES: $</td>
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</tbody>
</table>

FOR RATE DETERMINATION

Main Heat Source*: | Electric | Gas | Other |
| Backup Heat Source: | Electric | Gas | Other |
| Water Heat Source*: | Electric | Gas | Other |
| Remarks: |

Diagram of facility location. Indicate North arrow and desired meter locations.

1. Service installation by customer/electrician is subject to applicable income tax gross-up charges.

Aplicant shall locate and mark all privately owned underground facilities and systems (including but not limited to water services, culverts, irrigation systems, drain pipes, septic lines, and underground wiring) to conform with the current version of Recommended Guidelines for Underground Utilities and the uniform color code established by the American Public Works Association, prior to MidAmerican Energy Company’s construction.

The undersigned has read the back and front of this application and requests MidAmerican Energy to install and/or repair gas and/or electric facilities on the property listed above. The applicant agrees to comply with all applicable codes, rules, regulations, and MidAmerican Energy’s tariffs, electric service manual, and gas service manual as filed with the appropriate state utilities board or commission. Failure to comply may result in charges.

APPLICANT SIGNATURE DATE | APPLICANT SIGNATURE DATE

See additional requirements and terms on the back of this application.

IF YOU SMELL GAS, CONTACT MIDAMERICAN AT 1-800-595-5325

EFFECTIVE 7-9-18 PUBLIC
APPENDIX A
GAS / ELECTRIC SERVICE FACILITY APPLICATION AGREEMENT (2-100) BACK

CONTACT MIDAMERICAN ENERGY TO DETERMINE IF THIS IS THE CURRENT VERSION OF THIS FORM.

A drawing of the proposed Gas and/or Electric meter location must be included on the front of or with this application. The gas and/or electric meter location must be approved by your local MidAmerican Energy customer contact before any work is started. MidAmerican Energy shall have the sole right to determine the location of the service lines and meters.

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Applicant will provide, without cost to MidAmerican Energy, such easements as are necessary for the installation and maintenance of MidAmerican Energy’s facilities on private property within the area served. No building shall be constructed and/or changes made in ground elevation by the grantor within MidAmerican Energy’s easement area without written permission from MidAmerican Energy indicating that said construction and/or ground elevation changes will not interfere with MidAmerican Energy’s rights to operate and maintain its facilities.

The Applicant is responsible for ensuring that all gas piping and any other gas and/or electric equipment is properly installed and adjusted in accordance with local and national codes and MidAmerican Energy requirements. Consistent with MidAmerican Energy’s Tariffs, no inspection by MidAmerican Energy, or failure to object to the applicant’s installation, shall render MidAmerican Energy liable for any damage or injury caused by problems with the applicant’s equipment and facilities. Any inspection of applicant’s equipment or piping by MidAmerican Energy during service installation, pilot lighting or leak investigation is for the sole purpose of determining whether MidAmerican Energy owned equipment is operating properly.

Applicant agrees to indemnify, protect and hold harmless MidAmerican Energy from and against all liability, damage, loss, claims and actions of any nature whatsoever which arise out of contacts with electric or gas facilities that occur as a result of the applicant’s negligence or noncompliance with any and all terms of this Agreement.

The installation of service is subject to MidAmerican Energy’s tariff on file with, and as may be amended by, the respective Public Utility Commissions in Illinois, Iowa, Nebraska, and South Dakota.

If applicant requires that the installation be completed during the winter construction season, an additional non-refundable charge may be billed. MidAmerican Energy reserves the right to determine when such winter construction season exists and the extra associated cost. Your local MidAmerican Energy customer contact can provide current dates and costs.

Contact your local MidAmerican Energy Customer Technician for service installation costs for your service type. Installation costs are based on machine trenching in normal soil. Additional charges may be billed for unusual conditions incurred, such as rock or buried obstructions.

MidAmerican Energy will not replace sod nor be responsible for lawn or landscape restoration due to the installation of the gas and/or electric service lines.

MidAmerican Energy will schedule the installation of the gas and/or electric service lines after the applicant’s premise and site is prepared and inspected for readiness by MidAmerican Energy. MidAmerican Energy will not be liable for any delays in the installation of the gas and/or electric service facilities.

Note: Site readiness is determined by the following:

☐ The foundation shall be backfilled and the ground shall be within 4" of final grade where the gas and electric services are to be installed.

☐ The installation at meter site shall be backfilled and properly compacted to prevent settling.

☐ All material and obstructions shall be removed from the route and area where the gas and electric services and meters are to be installed.

☐ The gas riser bracket or meter bracket shall be installed where applicable; Fuel lines must be permanently marked with the service address.

☐ The electric meter socket shall be installed and entrance wiring approved by the local electrical inspector where applicable.

☐ Electric sockets must be permanently marked with the service address. MidAmerican Energy’s Electric Service Manual describes the method for marking.

☐ Address and lot number shall be clearly posted at property prior to installation of gas and/or electric service being scheduled.

☐ See your local MidAmerican Energy customer contact for other possible requirements.

IOWA ONLY – The Applicant does hereby certify that the structure served by the gas and/or electric service lines (if intended primarily for human occupancy and if completed after April 1, 1984) meets the energy conservation standards as contained in the Iowa Administrative Code Section 651-16.800 (103a) known as the “Iowa State Building Code Thermal and Lighting Efficiency Standards.”

See MidAmerican Energy’s Gas Service Manual and MidAmerican Energy’s Electric Service Manual for installation requirements for your gas and electric services. Copies of both books are available to the applicant upon request.
APPENDIX A

SOUTH DAKOTA GAS FACILITY AGREEMENT (64-93A) FRONT

CONTACT MIDAMERICAN ENERGY TO DETERMINE IF THIS IS THE CURRENT VERSION OF THIS FORM.

<table>
<thead>
<tr>
<th>Service Address:</th>
<th>Date Site Ready:</th>
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<tbody>
<tr>
<td>City/State/Zip:</td>
<td>Account Number:</td>
</tr>
<tr>
<td>Responsible Billing Party:</td>
<td>WMIS Number:</td>
</tr>
<tr>
<td>Mail Address:</td>
<td>Polygon Number:</td>
</tr>
<tr>
<td>Phone No.:</td>
<td>Nearest Cross Street:</td>
</tr>
<tr>
<td>Township/Range/Section:</td>
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</table>

- [ ] New Building
- [ ] Comm/Ind
- [ ] Apartment Building
- [ ] Twin Home
- [ ] Existing
- [ ] Residential
- [ ] Relocate
- [ ] Mobile Home

Comments:

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<th>Heat</th>
<th>Gas Load (CFH)</th>
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<td>Cooking</td>
<td>No. of Meters</td>
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<td>Meter Location</td>
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<td>Garage</td>
<td>Service Line</td>
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<td>Other</td>
<td>Existing Main</td>
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<td>TOTAL</td>
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<td>Heat Pump:</td>
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<td>MAOP</td>
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<th>Cost to Customer</th>
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<td>Non-Htg Serv Line</td>
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<td>Obstruction Chg.</td>
<td>Adverse Const. Chg.</td>
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<tr>
<td>Relocate</td>
<td>Sub-total</td>
</tr>
<tr>
<td>Excise Tax</td>
<td>TOTAL</td>
</tr>
</tbody>
</table>

Diagram of Facility Location

Indicate North:

Applicant shall locate and mark all privately owned underground facilities and systems (including but not limited to water services, culverts, irrigation systems, drain pipes, septic lines, conduit and underground wiring) to conform with the current version of Recommended Marking Guidelines for Underground Utilities and the uniform color code established by the American Public Works Association, prior to MidAmerican Energy’s construction. MidAmerican Energy will not be responsible for damage to unmarked or incorrectly marked privately owned underground facilities.

MidAmerican Energy will not replace sod nor be responsible for lawn, landscape, or hard surfaces (concrete, asphalt, etc.) restoration due to the installation/relocation of the gas facility.

The undersigned has read the back and front of this agreement and requests MidAmerican Energy to install and/or relocate its facilities on the property listed above.

SIGNATURE, APPLICANT'S AGENT DATE APPLICANT SIGNATURE DATE
APPENDIX A
SOUTH DAKOTA GAS FACILITY APPLICATION AGREEMENT (64-93A) BACK

CONTACT MIDAMERICAN ENERGY TO DETERMINE IF THIS IS THE CURRENT VERSION OF THIS FORM.

The Applicant agrees to comply with all applicable codes, rules, regulations, and MidAmerican Energy's Gas Service Manual and tariffs as filed with the South Dakota Public Utilities Commission. Failure to comply may result in charges.

A drawing of the proposed gas facility work must be included on the front of this application. The gas facility location must be approved by your local MidAmerican Energy Customer Technician before any work is started. MidAmerican Energy shall have the sole right to determine the location of the service line and meter.

Applicants for service to commercial, industrial or residential buildings, including multifamily dwellings, should obtain from MidAmerican Energy information regarding gas pressure, metering, meter supports, etc. before starting construction.

Applicant will furnish and install meter backing or support posts where the building wall will not support the weight of the gas meter and/or is not conducive to attachment of support brackets.

Applicant is responsible for protection of the meter facilities against damage. The Applicant shall furnish and install physical barriers when specified by MidAmerican Energy.

Applicant will provide, without cost to MidAmerican Energy, such easements as are necessary for the installation and maintenance of MidAmerican Energy's facilities on private property within the area served. No building shall be constructed and/or changes made in ground elevation by the Applicant within MidAmerican Energy's easement area without written permission from MidAmerican Energy indicating that said construction and/or ground elevation changes will not interfere with MidAmerican Energy's rights to operate and maintain its facilities.

The Applicant is responsible for ensuring that all gas piping and any other gas equipment is properly installed and adjusted in accordance with local and national codes and MidAmerican Energy requirements. Consistent with the MidAmerican Energy's Tariffs, no inspection by MidAmerican Energy, or failure to object to the Applicant's installation, shall render MidAmerican Energy liable for any damage or injury caused by problems with the Applicant's equipment and facilities. Any inspection of Applicant's equipment or piping by MidAmerican Energy during service initiation, pilot lighting or leak investigation is for the sole purpose of determining whether MidAmerican Energy owned equipment is operating properly.

Applicant agrees to indemnify, protect and hold harmless MidAmerican Energy from and against all liability, damage, loss, claims and actions of any nature whatsoever arising out of or occurring as a result of the Applicant's negligence or noncompliance with any and all terms of the Agreement.

The installation/relocation of gas facilities is subject to MidAmerican Energy's tariffs as filed with, and may be amended by, the South Dakota Public Utilities Commission.

If Applicant requires that the facility work be completed during the winter construction season, an additional non-refundable charge may be billed. MidAmerican Energy reserves the right to determine when such winter construction season exists and the extra associated cost. Your local MidAmerican Energy Customer Technician can provide current dates and costs.

Contact your MidAmerican Energy Customer Technician for facility installation/relocation costs for your service type. Installation/relocation costs are based on machine trenching in normal soil. An extra charge may be billed for unusual conditions incurred, such as rock and buried obstructions.

MidAmerican Energy will inspect the site for readiness and schedule the work after the Applicant has the site prepared and ready for installation/relocation for the gas facilities. MidAmerican Energy will not be liable for any delays in the installation of the gas facilities.

Site readiness is determined by the following:

☐ The foundation shall be backfilled and the ground shall be within 4' of final grade where the gas facilities are to be installed.
☐ Meter site ground shall be backfilled and properly compacted to prevent settling.
☐ When required, meter backing or support posts shall be installed.
☐ All material and obstructions shall be removed from the route and area where the gas facilities are to be installed.
☐ Address and lot number shall be clearly posted at property prior to work being scheduled.
☐ See your local MidAmerican Energy Customer Technician for other possible requirements.

MidAmerican Energy will turn on gas service when the customer piping is connected to the gas meter outlet and passes a no flow check. In addition for multiple meter sets, each fuel line must be permanently marked with the service address before service initiation.

See MidAmerican Energy's Gas Service Manual for installation/relocation requirements for your gas facilities. A copy is available upon request.
APPENDIX A
ON-LINE GAS SERVICE FACILITY APPLICATION AGREEMENT

The link to the “New Construction Service Application” form is under “Contractors” on the midamericanenergy.com website.

You may go to this site to Apply for Service.
# Appendix B
## Commercial Gas Service Worksheet (65-29E)

Contact MidAmerican Energy to determine if this is the current version of this form.

### Commercial Gas Service Worksheet

<table>
<thead>
<tr>
<th>Project Name</th>
<th>MEC Date Sent</th>
<th>MEC Date Received</th>
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<tbody>
<tr>
<td>Project Address</td>
<td></td>
<td></td>
</tr>
<tr>
<td>City</td>
<td>State</td>
<td>Zip</td>
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<tr>
<td>General Contractor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact Person</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
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<td>Mailing address</td>
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<tr>
<td>City State Zip</td>
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<tr>
<td>Office phone number</td>
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<tr>
<td>Cell phone number</td>
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<tr>
<td>HVAC Contractor</td>
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<tr>
<td>Contact Person</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office phone number</td>
<td></td>
<td></td>
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</tbody>
</table>

**Items necessary to design gas service & meter set:**

- [ ] Date building will be ready for meter installation
- [ ] Date blocktop or curb are to be installed
- [ ] Identify wall material where meter is to be mounted (brick, lap siding, Dryvit, metal, precast, etc.)

**NOTE:** Backing or support posts will be required where the wall will not support the weight of the meter set

- [ ] Number of gas meters needed
- [ ] Gas delivery pressure
- [ ] Load for each meter/unit or suite - provide load for each piece of gas burning equipment (attach additional sheets if needed)

<table>
<thead>
<tr>
<th>Unit or Suite #</th>
<th>Appliance Type (Boiler, Furnace, etc.)</th>
<th>Quantity</th>
<th>Appliance BTU Input</th>
<th>Total BTU's</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Attach the following or send electronic version (pdf preferred):**

- [ ] Site plan showing nearest cross street
- [ ] Electrical site plan
- [ ] Mechanical plan
- [ ] Exterior elevation drawings
- [ ] Gas meter location indicated on site plan in feet off closest corner (12' N of SE corner of bldg)

Form Completed By: __________________________ Phone Number: __________________________
Customer's Authorization Form

The work described below will be done at:

Street:

City, State, Zip:

The customer requests MidAmerican Energy to do the following work:

WMIS Number:

Bill Acct. Number:

Taken By:

Date:

BILL TO:

Name:

Street:

City, State, Zip:

Phone No.:

When the work described is complete, Customer promises to pay:

Summary of Work:

COST

$  

$  

Tax  %  $  

TOTAL COST TO CUSTOMER  $  

DATE REQUESTED

Indicate North:

Diagram of Facility Location

Applicant shall locate and mark all privately owned underground facilities and systems (including but not limited to water services, culverts, irrigation systems, drain pipes, septic lines, conduit and underground wiring) to conform with the current version of Recommended Marking Guidelines for Underground Utilities and the uniform color code established by the American Public Works Association, prior to MidAmerican Energy's construction. MidAmerican Energy will not be responsible for damage to unmarked or incorrectly marked privately owned underground facilities.

MidAmerican Energy will not replace sod nor be responsible for lawn, landscape, or hard surfaces (concrete, asphalt, etc.) restoration due to the installation/relocation of the gas and/or electric facilities.

The undersigned has read the back and front of this agreement and requests MidAmerican Energy to install and/or relocate its facilities on the property listed above.

SIGNATURE, CUSTOMER'S AGENT  DATE  

CUSTOMER'S SIGNATURE  DATE
APPENDIX C
CUSTOMER’S AUTHORIZATION FORM (18-2) BACK

A drawing of the proposed gas and/or electric facility work must be included on the front of this authorization. The gas and/or electric facility location must be approved by your local MidAmerican Energy Customer Technician before any work is started. MidAmerican Energy shall have the sole right to determine the location of the service lines and meters.

The Applicant agrees to comply with all applicable codes, rules, regulations and MidAmerican Energy’s tariffs, Electric Service Manual, and Gas Service Manual as filed with the appropriate state utilities board or commission. Failure to comply may result in charges.

Applicants for service to commercial, industrial or residential buildings, including multifamily dwellings, should obtain from MidAmerican Energy, information regarding gas pressure, voltage, transformers, metering, etc. before starting construction.

Applicant will furnish and install meter backing or support posts where the building wall will not support the weight of the gas meter and/or is not conducive to attachment of support brackets.

Applicant is responsible for protection of the meter facilities against damage. The Applicant shall furnish and install physical barriers when specified by MidAmerican Energy.

Applicant will provide, without cost to MidAmerican Energy, such easements as are necessary for the installation and maintenance of MidAmerican Energy’s facilities on private property within the area served. No building shall be constructed and/or changes made in ground elevation by the applicant within MidAmerican Energy’s easement area without written permission from MidAmerican Energy indicating that said construction and/or ground elevation changes will not interfere with MidAmerican Energy’s rights to operate and maintain its facilities.

The Applicant is responsible for ensuring that all gas piping and any other gas and/or electric equipment is properly installed and adjusted in accordance with local and national codes and MidAmerican Energy requirements. Consistent with MidAmerican Energy’s Tariffs, no inspection by MidAmerican Energy, or failure to object to the applicant’s installation, shall render MidAmerican Energy liable for any damage or injury caused by problems with the Applicant’s equipment and facilities. Any inspection of Applicant’s equipment or piping by MidAmerican Energy during service initiation, pilot lighting or leak investigation is for the sole purpose of determining whether MidAmerican Energy owned equipment is operating properly.

Applicant agrees to indemnify, protect and hold harmless MidAmerican Energy from and against all liability, damage, loss, claims and actions of any nature whatsoever arising out of or occurring as a result of the Applicant’s negligence or noncompliance with any and all terms of the Agreement.

The relocation/installation of facilities is subject to MidAmerican Energy’s tariff on file with the public utilities commission in the state of Illinois, Iowa, Nebraska, and South Dakota.

If Applicant requires that the facility work be completed during the winter construction season, an additional non-refundable charge may be billed. MidAmerican Energy reserves the right to determine when such winter construction season exists and the extra associated cost. Your local MidAmerican Energy Customer Technician can provide current dates and costs.

Contact your MidAmerican Energy Customer Technician for facility work costs for your service type. Relocation/installation costs are based on machine trenching in normal soil. An extra charge may be billed for unusual conditions incurred, such as rock and buried obstructions.

MidAmerican Energy will inspect the site for readiness and schedule the work after the Applicant has the site prepared and ready for installation/relocation for the gas facilities. MidAmerican Energy will not be liable for any delays in the installation of the gas facilities.

Site readiness is determined by the following:

☐ The foundation shall be backfilled and the ground shall be within 4” of final grade where the gas and electric facilities are to be installed.
☐ Meter site ground shall be backfilled and properly compacted to prevent settling.
☐ When required, meter backing or support posts shall be installed.
☐ All material and obstructions shall be removed from the route and area where the gas and electric facilities are to be installed.
☐ The gas riser or meter bracket shall be installed where applicable.
☐ The electric meter socket shall be installed and entrance wiring approved by your local municipal inspector where applicable.
☐ Electric sockets must be permanently marked with the service address. MidAmerican Energy’s Electric Service Manual describes the method for marking.
☐ Address and lot number shall be clearly posted at property prior to work being scheduled.
☐ See your local MidAmerican Energy Customer Technician for other possible requirements.

MidAmerican Energy will not turn on gas service when the customer piping is connected to the meter outlet and passes a no flow check. In addition for multiple meter sets, each fuel line must be permanently marked with the service address before service initiation. MidAmerican Energy’s Gas Service Manual describes the method for marking.

See MidAmerican Energy’s Gas Service Manual and MidAmerican Energy’s Electric Service Manual for relocation/installation requirements for your gas and electric facilities. Copies of both books are available to the Applicant upon request.