



# KIT CARSON ELECTRIC COOPERATIVE, INC.

A Touchstone Energy® Cooperative  
The power of human connections®



(575) 758-2258 • (800) 688-6780 • Fax: (575) 758-4890 or (575) 758-4611 • www.kitcarson.com

## PRE AUDIT RESIDENTIAL FORM

High Use Complaint

Conservation Audit

### Development identification

Member name: \_\_\_\_\_ Physical address: \_\_\_\_\_

Meter number: \_\_\_\_\_

Name of person completing this survey: \_\_\_\_\_

Contact person's telephone number: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_

Heating degree day zone \_\_\_\_\_ 4.01 \_\_\_\_\_ DDZ

Heating season hours \_\_\_\_\_ 3312 \_\_\_\_\_ Hrs

### Building Type

Residential building type (check off applicable building type, then answer all further questions under that type):

family houses (circle one: Adobe, Constructed, Standard 2x6,2x8)

Manufactured Home

Single: \_\_\_\_ Double: \_\_\_\_

### Walls

Wall construction, size and insulation (check off whether insulated or uninsulated; for uninsulated construction also check structure and siding type) Insulated construction  Uninsulated construction  Wood frame with wood siding  Wood frame with aluminum siding  Wood frame with brick siding  Wood frame with other siding  Concrete block masonry wall  Brick masonry wall  Other masonry wall construction

Total area of all uninsulated exterior (not including windows and doors) \_\_\_\_\_ square feet

### Architectural Data

#### Development Size

Total floor area in the home \_\_\_\_\_ square feet (lengthXwidth)



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## DRAW Rough Plan

### Windows

Window area (total for entire home) \_\_\_\_\_ square feet or total windows \_\_\_\_ and size of window \_\_\_\_\_

Window panes (typical or predominant type)

Single pane  Double pane  Triple pane

Window frame material  Wood  Metal  Vinyl  Fiberglass

Typical Window fit (check off predominant condition)

Loose (frame rattles, large air gaps, large drafts)  Average (some looseness, no large gaps, no large drafts)  Tight (no excessive frame movement or drafts)

Are the windows equipped with storm windows?

Yes  No

Are windows and/or storm windows weather stripped adequately?

Yes  No

Is home equipped with air condition?

Yes  No  N/A



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Are windows in home equipped with exterior shades, interior blinds or tinted glass?  Yes  No

## Exterior Doors

Total number of exterior doors in your home \_\_\_\_\_ doors

Typical exterior door fit (check off predominant condition)  Loose (large drafts)

Average (no excessive drafts)  Tight (no drafts)

Are exterior doors adequately weather stripped?  Yes  No

Are exterior doors equipped with storm doors?  Yes  No

Predominant door type (inspect doors, door labels, or construction specifications)

Wood

Specify wood door thickness: \_\_\_\_\_ inches

Metal (energy conserving type – insulated steel)  Metal (standard type – hollow steel)



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## Attics and Flat roofs

Does the development have attics or flat roofs on the buildings?

- Attics (i.e., roofs with crawl space or full attics underneath)
- Flat roofs (i.e., flat or nearly flat roofs with no attic or crawl space Underneath)

If you checked off "attics" answer questions A & B. If you checked off "flat roofs" answer questions C & D.

a) Area of attic (assume it is equal to the floor area of the top floor)

\_\_\_\_\_square feet

b) Attic insulation type and level, i.e., depth (measure typical insulation thickness and enter below; round off to nearest inch)

- Batt fiberglass
- Dry cellulose
- Loose fill fiberglass  
\_\_\_\_\_inches

Area of flat roof (assume that it is equal to the total floor area of the top floor of the building)

\_\_\_\_\_square feet.

Type of existing flat roof structure (check whether insulated or uninsulated; if uninsulated also check structure type)

- Insulated  Uninsulated  Wood Structure  Concrete Structure  Steel Structure



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## Heating and Cooling Systems Data

### Heating System and Fuel Type

Heating system type (check off applicable type):  Individual heating systems  Central heating systems

If you checked off "Central heating system," check off system type:

Heating Oil  Propane  Electricity  Natural Gas

If you answered "Individual heating systems" answer questions Bold Heading Individual Heating Systems

### Individual Heating Systems

Do the heaters have vent dampers or flue dampers (applies only to oil and gas furnaces and boilers)?  Yes  No  Other /

Explain: \_\_\_\_\_

Do gas heaters have constant burning pilot lights?  Yes  No

Are heaters controlled by thermostats? If yes, indicate type  Yes  No  Non setback  Setback

How many plug in electric heaters do you have \_\_\_\_\_? How many watts for each heater \_\_\_\_\_?



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## Central Heating System

Does the system have flue dampers or vent dampers (question applies to oil and gas furnaces and boilers only)?  Yes  No

Heat distribution type of your central heating system (check off applicable type)

Steam  Hot water  Forced air

Check off which of the following are used to control heating:

Outdoor reset and cutout controls (boiler systems only)  Non setback thermostats in the dwelling units  Setback thermostats in the dwelling units  Radiator controls in the dwelling units (boiler system only)

Are all or most hot water or steam distribution pipes insulated (question does not apply to forced air distribution systems?)  Yes  No

## Air conditioning (AC) Systems

Do you have air conditioning in your home to cool areas?  Yes  No

Do you have air conditioning in your home (include individual window or wall AC units if they are owned and installed by the residents)?  Yes  No

Air conditioning system type and number of units  Individual window or wall units: \_\_\_\_\_ units  Central system: \_\_\_\_\_ units



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## Domestic Hot Water (DHW) System/Water Supply Systems Data

Hot Water Heater Fuel and Type

Does your home have DHW tanks?  Yes  No

Is the DHW tanks insulated? (Note: Most newer hot water heaters have adequate insulation built into the design, but may not look “wrapped”.)

Yes  No

Water heater type (check off applicable type)  Individual tank water heater  Central DHW heater

Water heater fuel type:  Heating oil  Natural gas  Electricity  Propane

## Water Supply Systems

Do you have low flow faucet aerators and shower heads installed on all or most faucets and showers?  Yes  No

How is proper water pressure maintained in your development?  From street mains (no tanks and no pumps)  
 Own water well

Have watersaving toilets been installed in your development?  Yes  No



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## Laundry

Are washing machines restricted to cold water rinse only?

- Yes
- No

## Miscellaneous Data

Average age and size of existing refrigerators (check off predominant age and size of existing refrigerators in your development)

- 1970's
- 1980's
- 1990's or newer
  
- 13 cubic feet or smaller
- 14-15 cubic feet
- 16 cubic feet or larger

## TV

How many TV's \_\_\_\_\_? Flat  
screen \_\_\_\_\_ Conventional  
\_\_\_\_\_

## Range Type

- Electric
- Gas
- Computers

## Lighting Systems Data

Residential Unit Lighting Type of lighting in residential units (check off predominant fixture type in each of the following spaces)

### Kitchen:

- Fluorescent
- Incandescent

### Bathroom:

- Fluorescent
  - Incandescent
- Hallway/Foyer:
- Fluorescent
  - Incandescent

How many lights in home \_\_\_\_\_ total





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## Exterior Lighting

Predominant type of exterior lighting fixture (check off applicable type)

- None (no exterior lighting)
- Sodium vapor lamps (high or low pressure)
- Mercury vapor lamps
- Metal halide lamps
- Incandescent lamps
- Fluorescent lamps

ECM #	Energy Conservation Measure
	ARCHITECTURAL ECM'S
1	install storm windows
2	install replacement windows
3	install window sun shades
4	install storm doors
5	install/increase attic insulation
6	install roof insulation
7	install wall insulation
8	control air leakage
	Heating and cooling ECM's
9	install vent dampers
10	convert to electronic ignition
11	install boiler controls
12	replace inefficient heating plan
13	install setback thermostats
14	install radiator controls
15	insulate hot water or steam pipes
16	convert steam heating to hot water distributions
17	seal and insulate ducts

Halogen lamps Number of exterior lighting fixtures: \_\_\_\_\_



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ECM #	Energy Conservation Measure
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1	install storm windows
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6	install roof insulation
7	install wall insulation
8	control air leakage
	Heating and cooling ECM's
9	install vent dampers
10	convert to electronic ignition
11	install boiler controls
12	replace inefficient heating plan
13	install setback thermostats
14	install radiator controls
15	insulate hot water or steam pipes
16	convert steam heating to hot water distributions
17	seal and insulate ducts
18	install geothermal heat pumps
19	replace inefficient air conditioners
20	install swamp coolers
	Domestic hot water system
21	install water efficient showerheads and faucet Aerators
22	insulate hot water tanks
23	install DHW offpeak controls
24	convert laundry to cold rinse
25	replace inefficient hot water heater
	Lighting system ECM's
26	Replace incandescent lighting with compact fluorescent lamps in dwelling units
27	Replace incandescent lighting with fluorescent lighting in common areas
28	Replace older fluorescent lamps with energysaving lamps in common areas
29	Replace older fluorescent lamps and ballasts in common areas
30	Install lighting controls in common areas
31	Convert exterior lighting fixtures