Thermal Inspection

Thermal
Specialists of
Conway LLC

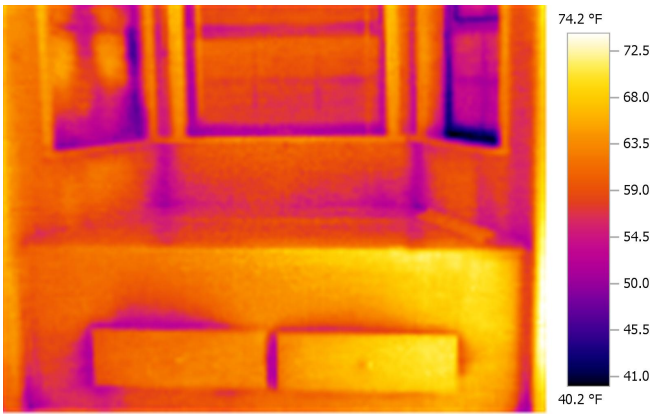
Company	Thermal Specialists of Conway LLC 3180 Cresthaven Conway AR	Tester: Thomas Epperson Phone: 501-733-7390 E-Mail: thomas.epperson@gmail.com
Device	testo 875-2	Serial No.: 1840576 Lens: 7.5mm far infrared lens
Customer	100 Cooper Lane Austin AR 72007	Measuring Site: 100 Cooper Lane Austin AR 72007 Measuring Date: 12/13/2010

Task

Thermal Inspection

Thermal Specialists of Conway LLC

File:	Date:	Measuring Time:
IV_00222.BMT	12/13/2010	11:22:10 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:

There is some heat loss at this cabinet. The interior of the cabinet is much colder than the inside of the house. Some heat loss here could be reduced by adding insulation to the walls within the structure. This would reduce the usable storage space slightly however.

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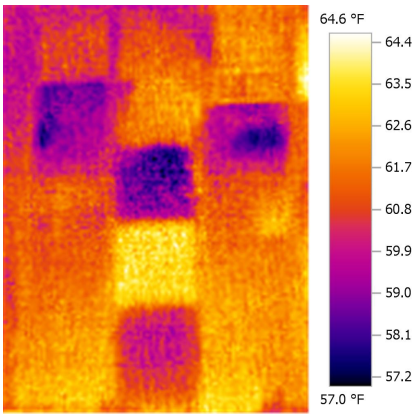
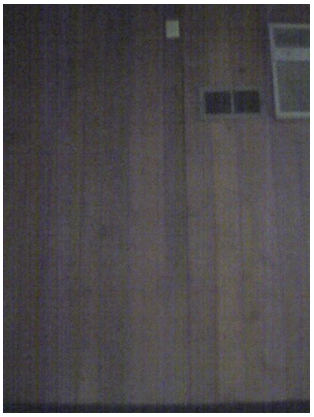
File:	Date:	Measuring Time:
IV_00235.BMT	12/13/2010	11:36:12 AM





Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
Air ducts in the outer wall of the upper room are a source of heat loss.

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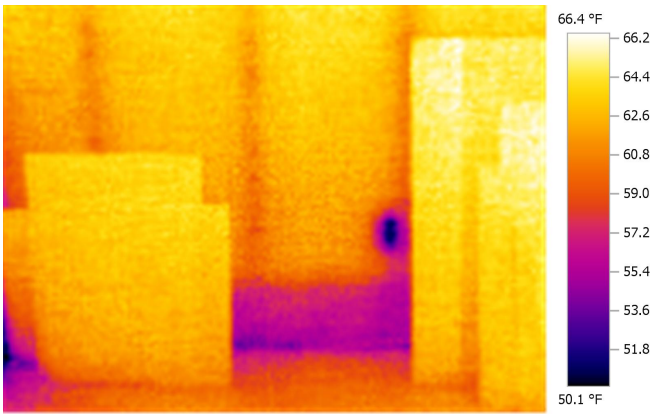
File:	Date:	Measuring Time:
IV_00220.BMT	12/13/2010	11:21:37 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
This electrical outlet in the back bedroom has the same heat loss as the others. The base of the back wall in this room is slightly cooler than the rest of the walls. The wall studs are also visible in this photo.

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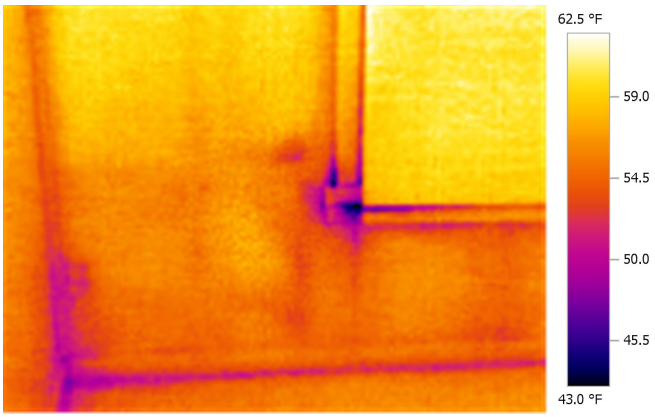
File:	Date:	Measuring Time:
IV_00200.BMT	12/13/2010	11:11:00 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
The window in the front bedroom has some leaks near the lower left corner.

Thermal Inspection

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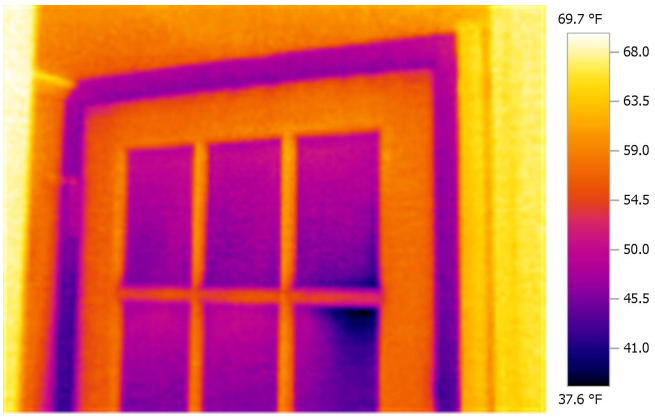
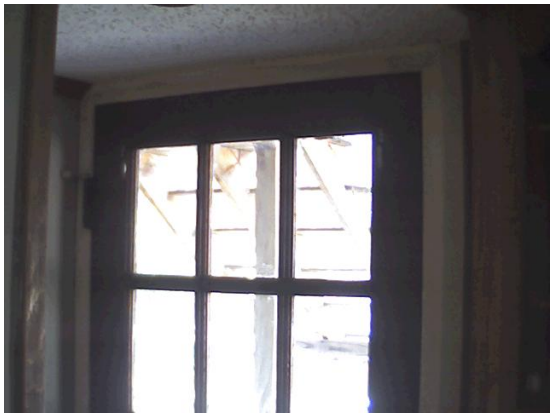
File:	Date:	Measuring Time:
IV_00209.BMT	12/13/2010	11:17:37 AM





Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
The door frame in the kitchen is showing heat loss. There is probably some space around the door frame that could use some insulation.

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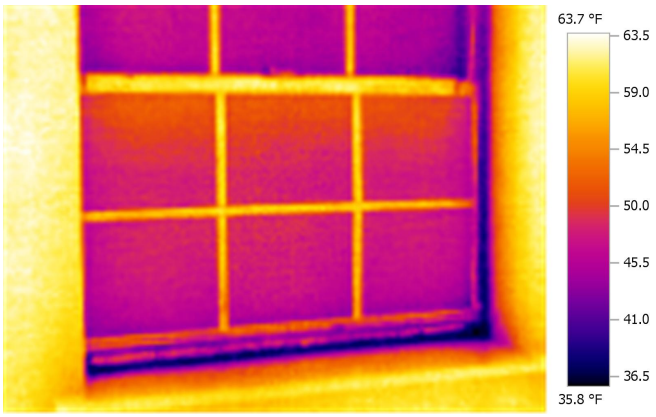
File:	Date:	Measuring Time:
IV_00229.BMT	12/13/2010	11:26:21 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
The window in the rear bathroom shows heat loss similar to the other windows.

Thermal Inspection

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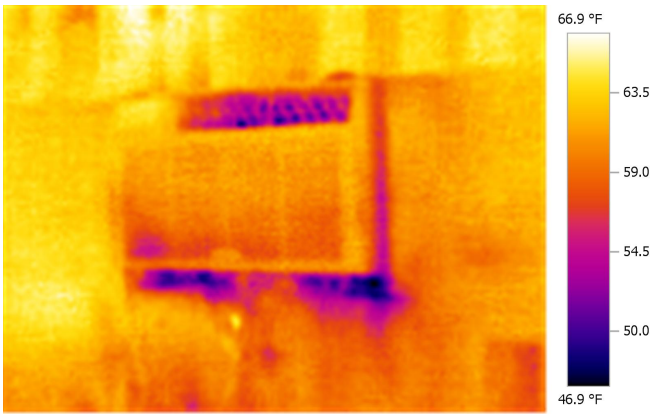
File:	Date:	Measuring Time:
IV_00231.BMT	12/13/2010	11:31:13 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
There is some heat loss around the air conditioner in the upstairs room. The tape should have some insulation placed behind it.

Thermal Inspection

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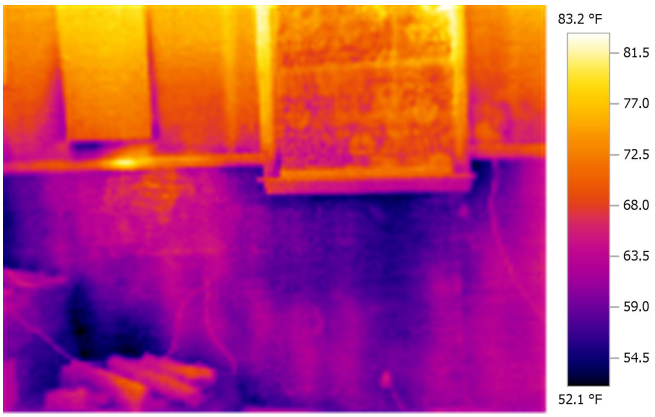
File:	Date:	Measuring Time:
IV_00207.BMT	12/13/2010	11:16:00 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
There are a lot of air leaks around the window on the other side of the living room. These will probably be handled best with a spray in foam that would be sprayed in through a small hole in the wall.

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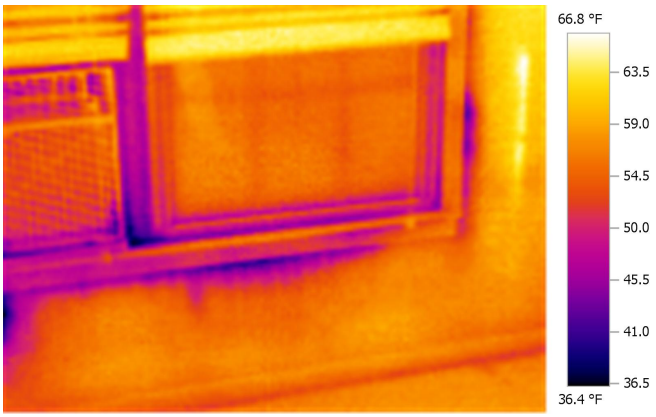
File:	Date:	Measuring Time:
IV_00199.BMT	12/13/2010	11:09:20 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
Another shot of the window area in the front room. There are some heat losses around the window.

Thermal Inspection

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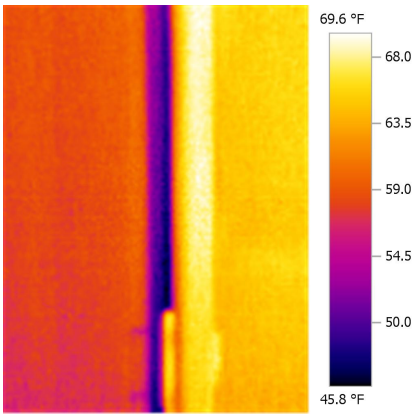
File:	Date:	Measuring Time:
IV_00241.BMT	12/13/2010	11:44:54 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
There is some heat loss around the upstairs patio door.

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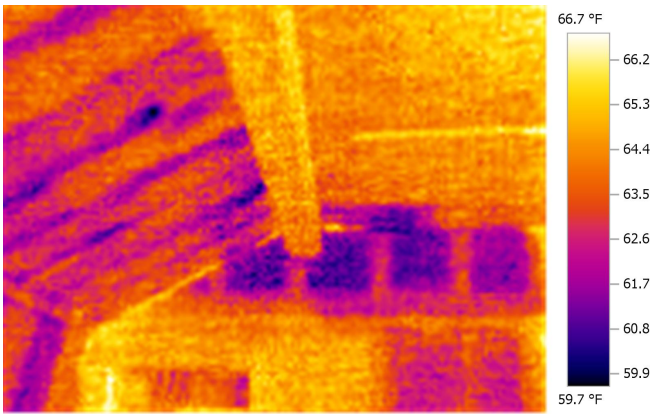
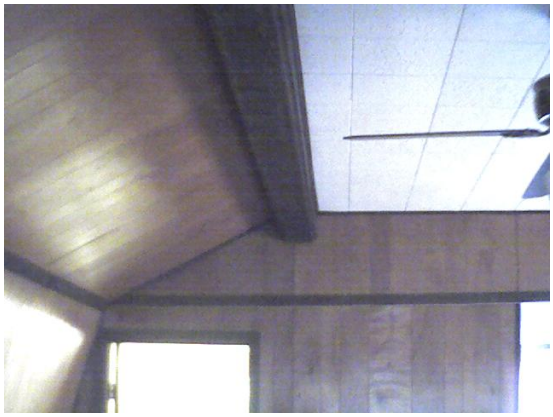
File:	Date:	Measuring Time:
IV_00233.BMT	12/13/2010	11:34:56 AM





Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
There is a lack of insulation in the upper wall area of the upstairs room near the bathroom. The cold spots between the warmer lines show where the insulating value of the wall is below the studs in the wall. On the left you see the studs are cooler because they don't insulate as well as the insulation in the wall cavities, which is normal.

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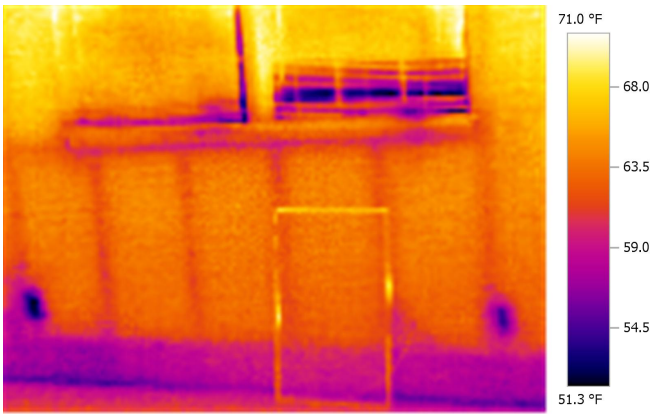
File:	Date:	Measuring Time:
IV_00219.BMT	12/13/2010	11:21:03 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
These electrical outlets in the rear room need the same insulation treatment as the other leaking electrical outlets. You can easily see where the studs are within the wall because they are represented as cold lines.

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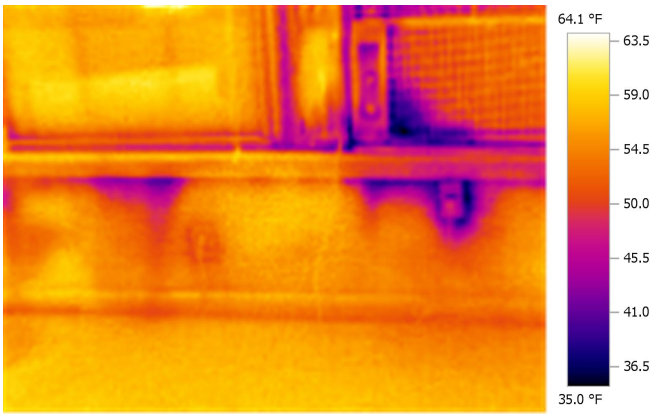
File:	Date:	Measuring Time:
IV_00198.BMT	12/13/2010	11:09:10 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
The electrical outlet below the air conditioning unit is a source of heat loss. There is also some heat loss near the bottom left corner of the air conditioner. Both of these will benefit from some extra insulation.

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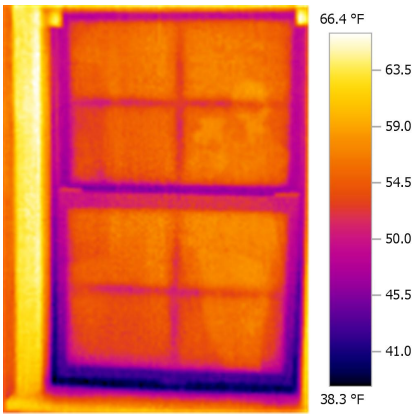
File:	Date:	Measuring Time:
IV_00224.BMT	12/13/2010	11:23:41 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
A shot of the heat loss around one of the windows. The other windows in this alcove show very similar heat loss patterns.

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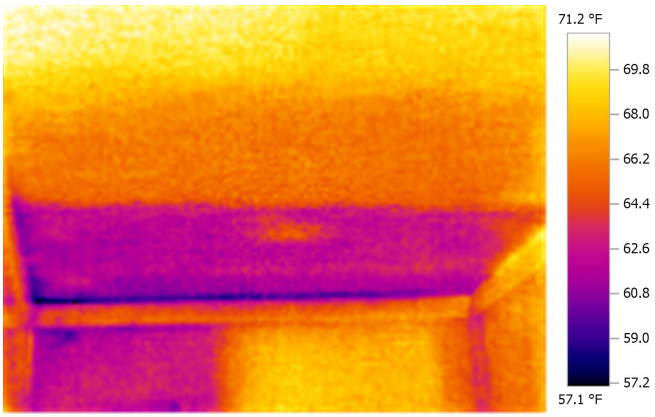
File:	Date:	Measuring Time:
IV_00215.BMT	12/13/2010	11:20:08 AM



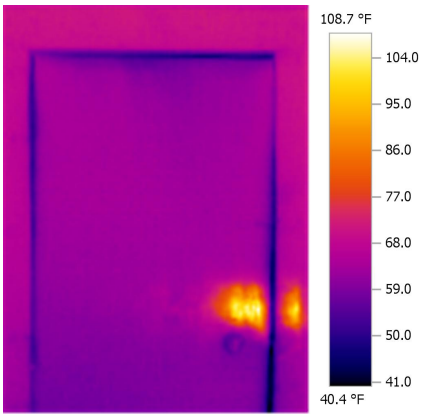
Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
A cold area in the ceiling behind the door of the front bathroom.

Thermal Inspection

File:	Date:	Measuring Time:
IV_00197.BMT	12/13/2010	11:08:08 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
The top of the front door has similar leaks as the bottom of the door. The hot spot above the door handle is from body heat.

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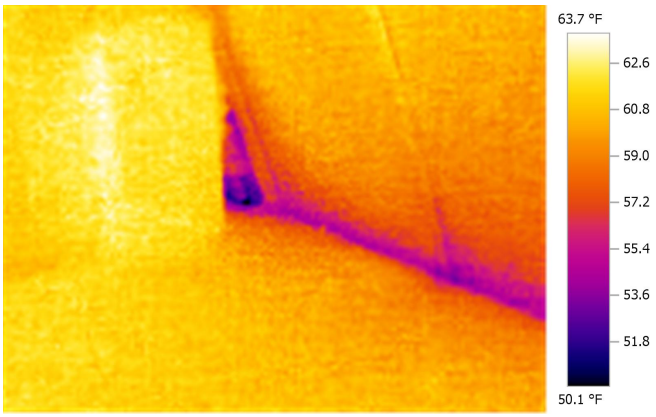
File:	Date:	Measuring Time:
IV_00232.BMT	12/13/2010	11:33:40 AM



Picture parameters:

Emissivity:	0.95
Refl. temp. [°F]:	68.0

Remarks:
There is a gap in the insulation in this corner of the upstairs room.

Review:
This house does have heat losses, but they aren't severe enough to prevent the house from being heated to a comfortable temperature. The major heat losses can be taken care of by adding insulation around the windows, electrical outlets, and doors depicted in the thermal photographs. There are a few spots around the house where the addition of insulation could offer decent improvements.

12/13/2010 ,

Thomas Epperson