



SINGLE FAMILY

Austin City Code Chapter 6-7, June 2009

ECAD Energy Audit Results

For Residence: 203 Ben Howell DR Austin, TX, 78704

Audit Date: 9/6/2016

Thank you for complying with the City of Austin's ECAD Ordinance, which requires homeowners to provide these energy audit results to buyers.

SAVE THIS FORM! This ECAD audit is valid for 10 years after the audit date.

This audit helps you identify energy efficiency improvements that could lower your monthly energy costs and make your home more comfortable. Austin Energy's Home Performance with ENERGY STAR® program offers rebates and low-interest loans that make these improvements more affordable. Before you begin making any home energy efficiency improvements, be sure to get the latest program details from austinenenergy.com or by calling **512-482-5346**.

ENERGY AUDIT SUMMARY

	Action Recommended?	Potential Annual Savings*:
A. Windows and Shading	Yes	\$100
B. Attic Insulation	Yes	\$100
C. Air Infiltration and Duct Sealing	No	
D. Heating and Cooling System Efficiency (HVAC)	No	
Total Annual Savings:		<u>\$200</u>

HOME IMPROVEMENT RECOMMENDATIONS:

Austin Energy recommends the following actions based on the energy audit performed by



Digitally signed by Jay Hill of AES
Date: 2016.09.13 19:37:29 -05'00'

- A. Improving your windows and/or adding shading reduces the heat that the Texas sun adds to your house.
- B. Adding insulation to your attic can save you money. This will prevent your house from heating up rapidly during summer and cooling down quickly during winter.
- C. No air infiltration or duct sealing recommendations.
- D. No heating and cooling system recommendations.

We appreciate your support of the ECAD ordinance and your efforts to make Austin the most livable city in the country.

DISCLOSURES: Figures are based on an estimate from the average single-family house in Austin (1800 - 2000 sq. ft.) that has made improvements through an efficiency program by Austin Energy or Texas Gas Service. Weather, equipment installation and electric usage will all effect actual savings. There is no guarantee or warranty, either expressed or implied, as to the actual effectiveness, cost or utility savings, if you choose to implement these recommendations.

The Energy Conservation Audit and Disclosure is not required to be included in the sales contract nor the Seller's Disclosure form (Texas Real Estate Commission), but instead is a stand-alone requirement of the City of Austin.



SINGLE FAMILY

Energy Audit Data

DATA SUMMARY

Submission Date: 9/6/2016

PROPERTY

Austin Energy Electric Meter Number: 3043321
Owner Name: Georgia Ridenhour
Street Address: 203 Ben Howell DR
City, State, Zip Code: Austin, TX, 78704

Tax Assessor's Property ID: 574162
Year Built: 1953
Estimated Square Footage: 1,198

AUDITOR

Auditor: Jay Hill - austinaes@yahoo.com
Company Name: AES

Phone Number: (512) 565-2700
Property Audit Date: 9/6/2016

WINDOWS & SHADING

Type(s) of Window(s): Single Pane, Double Pane Windows Installed
Type(s) of Existing Solar Shading:

ATTIC INSULATION

Attic Insulation Type: LF- Fiberglass & Insulsafe Average R-Value: 22
Open Chases(s): No chases in residence.

HEATING & COOLING AIR DUCT SYSTEM

HVAC SYSTEM: Condenser: Manufacturing Date: 2014 Estimated EER: 11.5
Furnace/AH: Manufacturing Date: 90-05 Estimated AFUE: 80
HVAC Duct Air Leakage: 67 CFM % Leakage: 8.4 %
Duct System Type(s) Mylar Flex
Enrolled in the Austin Energy Power Partner Thermostat Program: No

ADDITIONAL SYSTEM: Condenser: Manufacturing Date: N/A Estimated EER: N/A
Furnace/AH: Manufacturing Date: N/A Estimated AFUE: N/A
HVAC Duct Air Leakage: N/A % Leakage: N/A
Duct System Type(s): No second duct system
Enrolled in the Austin Energy Power Partner Thermostat Program: N/A

AIR INFILTRATION/WEATHERIZATION

Exterior doors: weather-stripped? No weather-stripping Attic access: weather-stripped? Yes
Plumbing penetrations: sealed? Plumbing penetration sealing needed

ADDITIONAL AUDIT INFORMATION

Domestic Water Heater Type(s): Standard Fuel Type: NaturalGas
Type(s) of Toilet(s): 2 High efficiency toilet(s)

PROPERTY IDENTIFICATION Outdoor Temperature F 91.0

County Travis	Property ID 574162	Property Type Single Family	Building Count 1
Meter Number 3043321	Second Meter		Gas Type AUST I/S Res
Street # 203	Direction	Street Name Ben Howell	Suffix Drive Unit
City Austin	State TX	Zip 78704	Occupied By Vacant
Year Built 1953	Foundation Pier & Beam	Estimated Sq Footage 1,198	Average Duct Leakage 8.4%
Levels 1.0	Bedrms 2	Baths 2.0	Fireplaces 0
		Average Wall Height 8 ft	Average Attic R-Value 22

WINDOWS & SHADING

Types of Windows Single Pane Double Pane Low-e Skylights Other

Types of Shading Solar Screens Solar Film Awnings Skylights Cover Other

Windows	S	SW	W	NW	N	NE	E	SE	Skylight
Needs Shade (sq ft)	0	0	0	36	0	0	0	0	0

Choose House Shape



NW N NE

Other W Bldg Front Orientation E

SW S SE

APPLIANCES & WATER HEATER

APPLIANCES (Remaining in Home)	'92 or older	'93 or newer		
Refrigerators	0	0	Pool Pumps	0 Speed
Freezers	0	0	Pool Pump Timers	0
Clothes Washers	0	0		
Clothes Dryers Gas	0	0	Water Heaters	1
Dish Washers		1	WH1 Standard	Fuel 1 Natural Gas
Range/Stove/Ovens Gas		1	WH2	Fuel 2
Inefficient Toilets (> 1.6 gal)		0	Water Heater Timers	0
Efficient Toilets (<= 1.6 gal)		2		
MISC Lighting Combination	Solar PV N		Electric Vehicle Charger	N Natural Gas Generator N
Sprinklers <input type="checkbox"/> Year Installed	Rainwater Collector N		Water Saving Devices	Some Installed

ATTIC INSULATION & AIR INFILTRATION

Roof Type Pitched	Roof Materials Shingle	Roof Color Light	Total Attic R-Value 22
Attic Insulation	Insulation Type LF - Fiberglass & Insulsafe	Secondary Insulation Type None	
	Square Feet 1,100	Inches Deep 10.0	R-Value 22
Vaulted Ceiling Insulation	Insulation Type No Vaulted Ceiling	Secondary Insulation Type	
	Square Feet	Inches Deep	R-Value
Cathedral Ceiling Insulation	Insulation Type No Cathedral Ceiling		
	Square Feet	Inches Deep	R-Value
Attic/Knee Wall Insulation Status	No Attic or Knee Walls		
N Radiant Barrier		Chases	None
Plumbing Penetrations Sealed	N	Furnace & WH Closet	Appropriately Sealed N
# Exterior Doors	2	# Doors Weather-stripped	1 Whole House Fan None
# Conditioned Stair Boxes/Hatches	1	# Insulated	1 # Weather-stripped 1

HEATING & COOLING (1)		Zone Description		Main	Est. Sq. Ft. (Zone)	1,198
COOLING	Type Central Air				Thermostat	Manual
	Condenser Mfg Date 2014	Est. EER 11.5	Est. Condenser BTUs [2.0] 24K			
	Tonnage	<input checked="" type="radio"/> From Mfg Spec 2.0	OR	<input type="radio"/> Est. from Sq. Ft.	Sq. Ft. per Ton	
HEATING	Type Central	Fuel Type Gas	Location Outside (Attic)		Air Handler Horizontal	
	Furnace Mfg Date '90-'05	Est. BTUs [2.0] 50K	Est. BTUs (other)		AFUE [Electric Start] 80%	
DUCT SYSTEM (Check all that apply) <input type="checkbox"/> NONE <input checked="" type="checkbox"/> Mylar Flex <input type="checkbox"/> Grey Flex <input type="checkbox"/> Duct Board <input type="checkbox"/> Sheet Metal						
Duct Locations <input type="checkbox"/> Conditioned Space <input type="checkbox"/> Crawl Spaces <input type="checkbox"/> Furrdowns <input checked="" type="checkbox"/> Attic						
Duct Condition Good R-Value R-6						
Return Air Sq. In. 350 Grille Type Stamped Return Plenum Seal No Visible Sealant						
LEAKAGE	Target CFM 800		Current Est. CFM 700			
	<input type="radio"/> Did Not Reach Pressure	<input checked="" type="radio"/> Measured Pressure Test Leakage CFM 67		% Leakage 8%		
	Supply Air Reading F 62.9	Return Air Reading F 74.4	Delta T 11.5			

HEATING & COOLING (2)		Zone Description		Est. Sq. Ft. (Zone)	
COOLING	Type None				Thermostat None
	Condenser Mfg Date	Est. EER	Est. Condenser BTUs		
	Tonnage	From Mfg Spec	OR	Est. from Sq. Ft.	Sq. Ft. per Ton
HEATING	Type None	Fuel Type	Location		Air Handler
	Furnace Mfg Date	Est. BTUs	Est. BTUs (other)		AFUE
DUCT SYSTEM (Check all that apply) <input checked="" type="checkbox"/> NONE <input type="checkbox"/> Mylar Flex <input type="checkbox"/> Grey Flex <input type="checkbox"/> Duct Board <input type="checkbox"/> Sheet Metal					
Duct Locations <input type="checkbox"/> Conditioned Space <input type="checkbox"/> Crawl Spaces <input type="checkbox"/> Furrdowns <input type="checkbox"/> Attic					
Duct Condition R-Value					
Return Air Sq. In. Grille Type Return Plenum Seal					
LEAKAGE	Target CFM		Current Est. CFM		
	<input type="checkbox"/> Did Not Reach Pressure	<input type="checkbox"/> Measured Pressure Test Leakage CFM		% Leakage	
	Supply Air Reading F	Return Air Reading F	Delta T		

HEATING & COOLING (3)		Zone Description		Est. Sq. Ft. (Zone)	
COOLING	Type None				Thermostat None
	Condenser Mfg Date	Est. EER	Est. Condenser BTUs		
	Tonnage	From Mfg Spec	OR	Est. from Sq. Ft.	Sq. Ft. per Ton
HEATING	Type None	Fuel Type	Location		Air Handler
	Furnace Mfg Date	Est. BTUs	Est. BTUs (other)		AFUE
DUCT SYSTEM (Check all that apply) <input checked="" type="checkbox"/> NONE <input type="checkbox"/> Mylar Flex <input type="checkbox"/> Grey Flex <input type="checkbox"/> Duct Board <input type="checkbox"/> Sheet Metal					
Duct Locations <input type="checkbox"/> Conditioned Space <input type="checkbox"/> Crawl Spaces <input type="checkbox"/> Furrdowns <input type="checkbox"/> Attic					
Duct Condition R-Value					
Return Air Sq. In. Grille Type Return Plenum Seal					
LEAKAGE	Target CFM		Current Est. CFM		
	<input type="checkbox"/> Did Not Reach Pressure	<input type="checkbox"/> Measured Pressure Test Leakage CFM		> 80% Leakage	
	Supply Air Reading F	Return Air Reading F	Delta T		

HEATING & COOLING (4) Zone Description **Est. Sq. Ft. (Zone)**

COOLING Type None		Thermostat None			
Condenser Mfg Date	Est. EER	Est. Condenser BTUs			
Tonnage	From Mfg Spec	OR	Est. from Sq. Ft.	Sq. Ft. per Ton	
HEATING Type None		Fuel Type	Location		Air Handler
Furnace Mfg Date	Est. BTUs	Est. BTUs (other)		AFUE	
DUCT SYSTEM (Check all that apply) <input checked="" type="checkbox"/> NONE		Mylar Flex	Grey Flex	Duct Board	Sheet Metal
Duct Locations	Conditioned Space	Crawl Spaces	Furrdowns	Attic	
Duct Condition	R-Value				
	Return Air Sq. In.	Grille Type	Return Plenum Seal		
LEAKAGE	Target CFM	Current Est. CFM			
	Did Not Reach Pressure	Measured Pressure Test Leakage CFM	> 80% Leakage		
	Supply Air Reading F	Return Air Reading F	Delta T		

HEATING & COOLING (5) Zone Description **Est. Sq. Ft. (Zone)**

COOLING Type None		Thermostat None			
Condenser Mfg Date	Est. EER	Est. Condenser BTUs			
Tonnage	From Mfg Spec	OR	Est. from Sq. Ft.	Sq. Ft. per Ton	
HEATING Type None		Fuel Type	Location		Air Handler
Furnace Mfg Date	Est. BTUs	Est. BTUs (other)		AFUE	
DUCT SYSTEM (Check all that apply) <input checked="" type="checkbox"/> NONE		Mylar Flex	Grey Flex	Duct Board	Sheet Metal
Duct Locations	Conditioned Space	Crawl Spaces	Furrdowns	Attic	
Duct Condition	R-Value				
	Return Air Sq. In.	Grille Type	Return Plenum Seal		
LEAKAGE	Target CFM	Current Est. CFM			
	Did Not Reach Pressure	Measured Pressure Test Leakage CFM	> 80% Leakage		
	Supply Air Reading F	Return Air Reading F	Delta T		

NOTES & INSTRUCTIONS