



An Exelon Company

Energy Efficiency Showcase of Homes

A Demonstration Project



- ✓ Introduction

- ✓ Program Description
 - Demonstrated Measures

- ✓ Results to Date
 - Energy Savings and Non-Energy Benefits

- ✓ Lessons Learned
 - Successes and Challenges

- ✓ As ComEd's 10-year rate freeze was about to end.
- ✓ ComEd launched a public awareness campaign.
- ✓ The campaign was branded under the Customer Affordable and Reliable Energy (CARE) banner.
- ✓ A CARE website was created which included several tools.
- ✓ Energy Efficiency Showcase of Homes program which conducted major energy makeovers to a dozen homes across its service territory, and produced narrated "how to" videos of the work that were made available online.

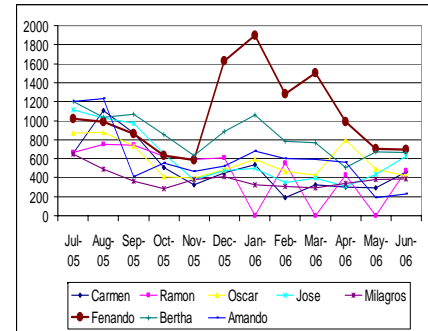
Program Description

✓ Selection Process

- Community Organizations
- Local Officials
- Consumption Filters
 - Total Therms, kWh per day
- Short list of 3 candidates

✓ Energy Audits

- RESNET Raters
- Blower door
- Infrared camera, duct leakage
- Baseline and Recommendations (BCR)



Program Description - Continued

✓ Work Scope

- Envelope Improvements
- High Efficiency Systems
- Appliances
- Lighting

✓ Contracts and Construction

✓ Videotaping and Narration

✓ Posting to the Website

- www.ComedCARE.com

SCOPE OF WORK

COMED'S ENERGY HOME MAKEOVERS PROGRAM

The following scope of work (SOW) is being presented to the contractor for pricing and the participant for approval.

Crawl Space Insulation:

1. Provide and spray sufficient foam insulation on the crawl space walls and rim joint adjoining the crawl space to the floorboard.
2. Seal all exposed duct in crawl space.

Seal Air-bypasses and air-leakage areas:

Refer to the attached audit report that identifies leakage areas in the attic and the crawl space. Use sheet metal to seal areas around chimney. Spray foam to seal areas around plumbing pipe, floor registers, or electric conduit.

Mechanical System:

Remove and dispose of the existing furnace and air-conditioning units.
Provide and install a new Carrier furnace model 58 TB100 or approved equal.
Provide and install a new 18-gallon humidifier.
Provide and install a new Carrier 5 ton air-conditioning system model 24APA538 or approved equal.

PARTICIPANT(S)

Margo Horton
2000 W. Cheyenne Road
Waukegan, IL
847-599-1024

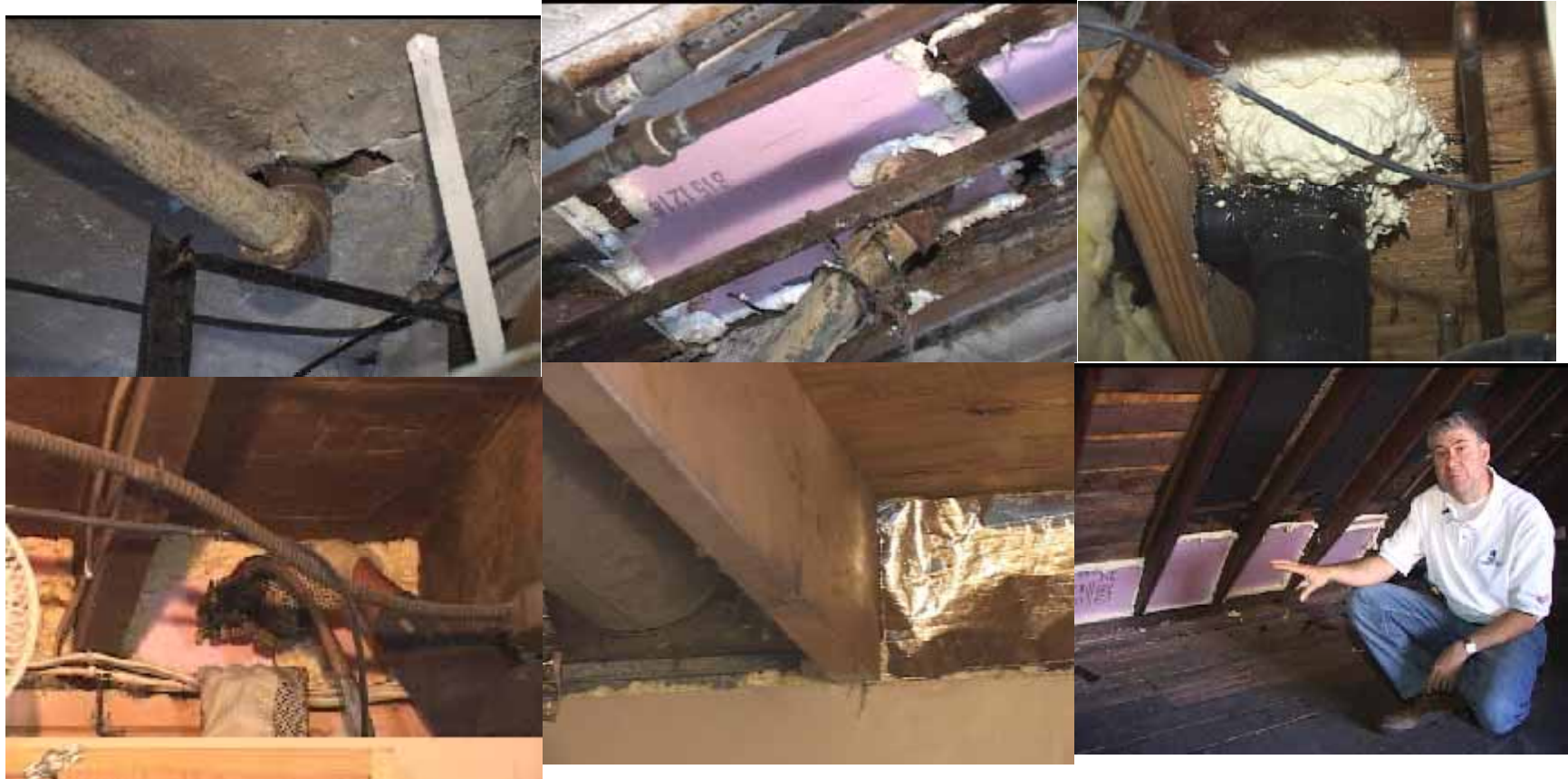
Signature: _____

Date: _____

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Envelope – Stop the Chimney Effect



Envelope - Blown-in Cellulose



Envelope – Crawl Space, Attic Insulation



Envelope - Blown In Cellulose



Mechanical System - High Efficiency



Appliances, Lighting, Misc



2006 Results: Savings Summary

Dwelling	Projected Electricity Savings kWh	Actual Electric Savings kWh	Projected Natural Gas Savings Therms	Actual Natural Gas Savings Therms	Total Actual Dollars Saved *
Chicago Bungalow with a Finished Basement	42%	32%	25%	30%	\$925
Sprawling Victorian in Rockford	14%	12%	59%	32%	\$1968
Cottage in Joliet	5%	12%	35%	17%	\$355
Historic Victorian in Elgin	13%	11%	24%	38%	\$541
New Construction Townhouse in Glenview	12%	22%	7%	-22%	NA
Split Level Home in Waukegan	20%	11%	30%	20%	\$706

* Savings based on nine months of actual post-retrofit data.

- ✓ **Benefits from Whole House Approach:**
 - Comfort (Draft, radiation)
 - Equipment Sizing Issues
 - Distribution Efficiency
 - Water
 - Air

- ✓ **Improved Property value**
 - Additional usable space
 - Lower Energy Bills
 - Comfortable systems

- ✓ A wealth of web based “how to” demonstrations of a wide range of measures (low cost, capital investment)
- ✓ Launch events with media outreach
- ✓ Community Goodwill
- ✓ Creation of an “Energy Doctor” resource
- ✓ Numerous appearance:
 - Fox, NBC, CNN, CBS
- ✓ Numerous print stories

Lessons Learned - Discussion

- ✓ Challenges with the selection process
- ✓ Savings measurement and verification
 - Changes in occupancy
 - Audit accuracy
 - Realized savings

Refrigerator	Monitored Usage Annual Prorate kWh	Energy Guide Annual Usage kWh
A Maytag MF Series Unit	828	581
Fridgidaire PHSC Series Unit	438	584
Whirlpool GT Series Unit	371	442
GE Adora Series Unit	916	620
GE Profile Series Unit	781	493