

C

CHARACTERISTICS OF SAMPLE HOMES

Each home for which data was collected was assigned an identification number. The following tables summarize the data for each home. The homes are listed in decreasing order of moisture score with the last nine homes having a moisture score of zero, meaning there were no signs of moisture problems in these nine homes.

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Table C-1. Site Characterization

Home ID Number	Location (State and City or County)	Number of sections			House Size (Sq. Ft.)	Thermal Zone (from HUD data plate)	Wind Zone (from HUD data plate)	Date Built	Microclimate (not crawlspace)					Long side of home faces												
		Single	Double	Triple					Zone 1	Zone 2	Zone 3	Zone I	Zone II	Zone III	Dry	Floods During Rain	Damp	Near Marsh or Water	Full Sun	Shaded	Wind Exposed	Wind Protected	North	South	East	West
29	Poplarville, MS	●			1216			6/18/1998		●												●				
16	Starr, SC			●	2100			1995		●									●				●			
17	St. Francisville, LA	●			1216			4/28/1998		●									●				●			
19	Liberty, TX		●		2128	●		6/5/2001		●								●				●			●	
27	Breaux Bridge, LA		●		2432			3/22/2001				●						●				●			●	
13	Breaux Bridge, LA		●		1904	●		11/15/1995				●					●		●			●				
14	Belton, SC		●		1525			Jun-95										●				●				
28	Sunset, LA		●		2432			10/22/1997		●								●				●			●	
32	Cantonment, FL		●		1260	●	●	4/27/1999		●								●				●			●	
64	Creola, AL		●		1792			1996										●				●				
65	Jacksonville, FL		●		2070	●		Dec-00		●								●				●			●	
25	Downsville, LA		●		2016	●		8/25/1997		●								●				●			●	
52	Tampa, FL		●		2000			1999																		
70	St. George, SC		●		1960	●		10/30/1995		●								●				●			●	
26	Downsville, LA		●		1848	●		10/7/1997		●								●				●			●	
1	Port Fourchon, LA	●			1120	●						●						●								
10	Broussard, LA		●		1848	●		11/20/1995		●								●							●	
11	Youngsville, LA		●		1568	●		11/25/1997			●							●							●	
12	Youngsville, LA	●			1216	●		7/16/1997			●							●				●			●	
30	Homestead, FL		●		1310		●	8/9/2000			●							●							●	
58	Dunnellon, FL		●		1948																					
61	Mossy Head, FL		●		1263			1999																		
62	Eight Mile, AL		●		2130	●		1995		●															●	
67	Middleburg, FL		●		1344	●		5/12/2001		●								●				●			●	
3	Port Fourchon, LA	●			1120	●												●								

Table C-1. Site Characterization (continued)

Home ID Number	Location (State and City or County)	Number of sections			House Size (Sq. Ft.)	Thermal Zone (from HUD data plate)	Wind Zone (from HUD data plate)	Date Built	Microclimate (not crawlspace)					Long side of home faces											
		Single	Double	Triple					Zone 1	Zone 2	Zone 3	Zone I	Zone II	Zone III	Dry	Floods During Rain	Damp	Near Marsh or Water	Full Sun	Shaded	Wind Exposed	Wind Protected	North	South	East
41	Titusville, FL	●			888			10/25/1991														●			
69	St. Augustine, FL		●		1152	●		3/8/2001	●						●		●		●					●	
7	Thibodaux, LA		●		2560		●							●											
9	New Iberia, LA		●		1848	●		2/2/2001	●															●	
31	St. Augustine, FL	●			1190	●	●	10/4/2000										●	●					●	
43	Prairieville, LA		●		3br/2ba			1995											●						
56	Houma, LA		●		1792																				
57	Houma, LA		●		1792																				
63	Panama City, FL		●		1344		●	1/6/1998										●					●		
66	Interlachen, FL		●		1738	●		1/22/1994	●									●	●					●	
2	Port Fourchon, LA	●			1120	●												●							
4	Port Fourchon, LA	●			1120	●												●							
8	Youngsville, LA		●		1568	●		5/20/1997									●	●					●		
23	Zephyrhills, FL		●		1474	●		9/22/1999	●														●		
38	Titusville, FL	●			888		●	6/7/1990									●		●				●		
44	Scott, LA	●			1368														●						
46	Houston, TX		●		5br/2ba																				
47			●		3br/2ba																				
48	beaches of NC		●		3br/2ba																				
49	Kinder, LA		●		4br/2ba																				
55	Port Fourchon, LA	●			1008														●						
60	Lithia, FL		●		2128																				
68	Hudson, FL		●		2001	●		Oct-99										●					●		
5	Port Fourchon, LA	●			1120	●												●							
33	Brooksville, FL		●		1563	●		10/1/1998	●								●	●				●		●	
37	Titusville, FL	●			990	●		1/14/1998									●		●				●		

Table C-1. Site Characterization (continued)

Home ID Number	Location (State and City or County)	Number of sections			House Size (Sq. Ft.)	Thermal Zone (from HUD data plate)	Wind Zone (from HUD data plate)	Date Built	Microclimate (not crawlspace)					Long side of home faces											
		Single	Double	Triple					Zone 1	Zone 2	Zone 3	Zone I	Zone II	Zone III	Dry	Floods During Rain	Damp	Near Marsh or Water	Full Sun	Shaded	Wind Exposed	Wind Protected	North	South	East
42	Titusville, FL	●			944	●						●			7/27/1993				●	●	●	●	●	●	
45	Houston, TX		●		4br/3ba																				
50	Fort Lauderdale, FL				1492														●						
51	Homestead, FL				1492																				
53	Orlando, FL				900										1999				●						
54	Orlando, FL				1080										1999				●						
59	Plant City, FL		●		3br																				
6	Port Fourchon, LA	●			1120	●						●						●							
34	Cantonment, FL		●		1248	●	●		●	●					6/1/1999				●	●	●			●	
35	Titusville, FL	●			792		●				●				9/25/1991	●			●					●	
36	Titusville, FL	●			648	●					●				9/24/1992			●		●	●		●		
39	Apopka, FL		●		2457		●				●				6/4/1997				●	●	●		●		
40	Titusville, FL	●			960		●				●				9/12/1990			●	●	●	●		●		
71	Zephyrhills, FL		●		1262	●					●				6/21/2000	●			●	●	●	●		●	
72	Zephyrhills, FL		●		1680	●					●				10/26/2000	●			●	●	●			●	
73	Mims, FL		●		1299	●									8/15/1996	●			●	●	●		●		

Table C-2. Problem characterization

Home ID Number	Problem surface(s)		Location		Wall problem – wall type	Wall problem – location		Ceiling problem – ceiling type	Ceiling problem – location		Floor problem – floor type	Floor problem – location																											
	Floor	Ceiling	Registers	Other		Vinyl	Papered		Luan/Tape and Textured	Combination		Perimeter End	Perimeter Long	Interior	Marriage	Closet	Sunny	Shady	Cathedral	Flat	Transition	Other	Peak	Exterior Walls	Interior Walls	Lights	Grilles	Closet	Other	Vinyl	Carpet	Other	Utility	Kitchen	Bath	Bedroom	Living	Closet	Other
29		•																																					
16	•			•																																			
17			•																																				
19	•																																						
27	•	•	•		•	•																																	
13	•	•	•		•	•																																	
14	•				•																																		
28		•			•																																		
32	•		•		•	•																																	
64	•	•	•	•	•	•	•																																
65	•		•	•	•	•	•																																
25		•	•	•		•	•																																
52	•		•																																				
70		•			•	•	•																																
26		•		•	•	•	•																																
1		•																																					
10			•			•																																	
11			•			•																																	
12			•				•																																
30	•		•		•																																		
58	•																																						
61			•																																				

¹ k/dr/lr

² vinyl and paper

Table C-2. Problem characterization (continued)

Home ID Number	Problem surface(s)	Location				Wall problem – wall type	Wall problem – location	Ceiling problem – ceiling type	Ceiling problem – location	Floor problem – floor type	Floor problem – location
		Floor	Ceiling	Walls	Other						
62			•		•	•					
67	•		•	•	•	•					
3			•								
41		•	•	•		•					
69	•		•		•	•					
7			•								
9		•			•						
31	•				•						
43			•			•					
56			•								
57			•								
63			•	•		•					
66		•	•		•						
2			•			•					
4			•			•					
8		•			•						
23	•				•						
38											
44			•			•					
46			•			•					
47			•			•					
48			•			•					
49			•			•					
55			•								
60	•		•			•					
68	•		•		•	•					
5			•			•					

Table C-2. Problem characterization (continued)

Table C-3. Problem characterization 2

Home ID Number	Structural Softening		Bowing and Buckling		Staining Present		Other Problem			Other Location		Most Active Problem Period			"Worst Condition" Problem Description																
	Yes	No	1-10 Sq. Ft.	10-100 Sq. Ft.	100+ Sq. Ft.	Yes	No	1-10 Sq. Ft.	10-100 Sq. Ft.	100+ Sq. Ft.	Yes	No	1-10 Sq. Ft.	10-100 Sq. Ft.	100+ Sq. Ft.	Yes	No	Rust	Odors	Interior RH >65%	Condensation	Other	Yes	No	Electricity Plates	Ducts	Other	Summer	Fall	Winter	Spring
29	•					•	•		•	•	•		•		•		•		•	•	•	•	•	•	•	•	•	•	•		
16	•					•	•		•	•	•		•		•		•		•	•	C16		•	•	•	•	•	•	•	Ceiling staining; condensation on beam at cathedral ceiling marriage line; warped ceiling boards; peeling ceiling texture	
17	•					•	•		•	•	•		•		•		•		•	•			•	•	•	•	•	•			
19	•					•	•		•	•	•		•		•		•		•	•			•	•	•	•	•	•	•	Damage in all vinyl floor areas	
27	•					•	•		•	•	•		•		•		•		•	•			•	•	•	•	•	•	•		
13	•					•	•		•	•	•		•		•		•		•	•			•	•	•	•	•	•	•	C2, C16	
14	•					•	•		•	•	•		•		•		•		•	C16		•	•	•	•	•	•	•	Staining on ceiling; condensation on beam at marriage line at cathedral ceiling peak; warped ceiling boards		
28	•					•	•		•	•	•		•		•		•		•	C2, C21, C22		•	•	•	•	•	•	•			
32	•					•	•		•	•	•		•		•		•		•	C18, C22, ceiling bowing		•	•	•	•	•	•	•	Exterior walls soft; staining on walls		
64	•					•	•		•	•	•		•		•		•		•	C2, C3, C4, C14, C16, C17, C19, C20, C21, C23								Year round	All thru house; major repair in '99 - replaced walls, roof & floor; 11 other repairs to date		
65	•					•	•		•	•	•		•		•		•		•	C2, C7, C19, C22								worst in summer	Worst condition at time of investigation, began in February in kitchen; floors buckling; wall board damaged in master bath; condensate in light fixtures & fireplace		
25	•					•	•		•	•	•		•		•		•		•	cabinets		•	•	•	•	•	•		Staining in cabinets; odors		
52	•					•			•		•		•		•		•		•	C18, C19											
70	•					•	•		•		•		•		•		•		•	C2, C4, C14, C16, C19, C21									Worst condition at time of visit		

Table C-3. Problem Characterization (continued)

Home ID Number	Structural Softening			Bowing and Buckling			Staining Present			Other Problem				Other Location				Most Active Problem Period				"Worst Condition" Problem Description									
	Yes	No	1-10 Sq. Ft.	No	Yes	1-10 Sq. Ft.	10-100 Sq. Ft.	100+ Sq. Ft.	Yes	No	1-10 Sq. Ft.	10-100 Sq. Ft.	100+ Sq. Ft.	Yes	No	Standing Water	Rust	Odors	Interior RH >65%	Condensation	Other	Yes	No	Electricity Plates	Ducts	Other	Summer	Fall	Winter	Spring	Other
26	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	cabinets	•			•	•	•									Stains in cabinets
1	•			•		•			•		•			•		C22, C23, C24		•		•											
10	•			•	•	•	•	•	•	•	•	•	•	•	•				•	•		•									
11	•			•	•	•	•	•	•	•	•	•	•	•	•				•			•							C2, C16		
12	•			•	•	•	•	•	•	•	•	•	•	•	•				•			•							Wall bowing; water in lights		
30	•		•	•	•	•	•	•	•	•	•	•	•	•	•	C17, C19, C20, C21, C22, C23		•			•	•	•	•	•	•	Foul ,musty smell when house depressurized				
58		•		•		•		•		•		•		•																	
61			•		•		•		•		•		•		•	C20, C21, C22															
62	•		•		•	•	•	•	•	•	•	•	•	•	•	C2, C22, C25, C27						•	•	•	•	•	Year round	Marriage wall totally replaced			
67		•		•		•	•	•	•	•	•	•	•	•	•													new house	At time of investigation		
3	•			•		•		•		•		•		•																	
41	•		•		•		•		•		•		•		•	C3		•		•								seasonal residents	Homeowners not in house during summer; uncertain when problem was worst		
69		•		•		•		•		•		•		•		C19													At time of investigation; Floors warped, exterior wall bowing, stains in mstr bath and cabinets		
7	•			•		•		•		•		•		•		C2															
9	•		•		•		•		•		•		•		•			•		•		•						C16			
31			•		•		•		•		•		•		•			•		•								Insufficient data			
43	•			•		•		•		•		•		•		C2															
56	•				•		•		•		•		•		•			•		•											
57	•				•		•		•		•		•		•													Flooring replaced twice by manufacturer; 4" of previous buckling			

Table C-3. Problem Characterization (continued)

Table C-3. Problem Characterization (continued)

Table C-4. Visual/Interview Findings

Home ID Number	As Found Interior Temperatures (Degrees F.)		Summer Setpoint		# of People, Pets & Other H20 Sources in Home	Tears in Bottom Board	Ground Cover Present	Dryer Duct Dumping into Crawl	Suspect Unsealed Marriage Line	Doors that are Typically Closed	Manual Vent Control	Vent Control Use	Unbalanced Supplies	Other (e.g. excessive drier use)	
	Degrees F.	Reported / Witnessed	Blower Setting On	Blower Setting Auto		Yes	No	Total Area Estimate (Sq. Ft.)	Yes	No	Estimated Area Covered (%)	Yes	No	Evidence	
	Yes	No	Yes	No		Yes	No	Yes	No	Yes	No	AM	PM		
29	70	R	● 2 people, 1 pet	●	200	●			●	●					●
16	75	73	W	● 3 people	●	10	●	75	●	●	Temp. at ceiling marriage line >85F; ceiling temp. 75F	●			
17	72	72	R	● 4 people	●		●		●			●			
19	70	72	W	● 4 people, 3 dogs	●	200	●		●	●		●	●		
27	70	72	W	4 people	●		●		●	●	location of damage				
13	75	75	R	3 people	●		●		●	●	C16				
14	70	70	R	● 2 people	●	10	●		●	●	No bolts; condensation at ridge of ceiling	●			
28	70	65-70	R	7 people	●	●	●		●	●		●	●	kit-always on	drier (5 kids)
32	72	72	W	4 people	●	10	●		●	●	gasketing not visible - wood to wood tight	●	●	Utility area - manual	drier use every day
64	73	72	R	● 2 people	●	30-50	●	95	●	●	pressure checks; stains at ceiling near marriage line	●	●	hall	
65	75	72-74 R/W	● 2 people	●		●			●	●	damage @ marriage wall	●	●		
25	72	70	W	2 people	●	10	●		●	●		●	●		●
52	73			4 people; 1 dog	●				●	●	pressures marriage wall problems	●	●		● excessive fan/drier use
70	67	73	R/W	● 4 people; 1 dog	●	10	●		●	●	pressures marriage wall problems	●	●		
26	70	70	W	● 2 people	●		●		●	●		●	●		●

Table C-4. Visual/Interview Findings (continued)

Home ID Number	As Found Interior Temperatures (Degrees F.)		Summer Setpoint	Tears in Bottom Board	Ground Cover Present	Dryer Duct Dumping into Crawl	Suspect Unsealed Marriage Line	Doors that are Typically Closed	Manual Vent Control	Vent Control Use	Unbalanced Supplies
	Degrees F.	Reported / Witnessed									
	Blower Setting On	Blower Setting Auto									
# of People, Pets & Other H20 Sources in Home											
1	70	75			•	4	•	20	•		
10		75	R	•	4 people 4 people; 1 pet	•	•			•	40 ●
11	69	70	W	•	10	•	70		•	•	●
12	70	73	R	•	4 people	•	25	80	•	•	●
30	77	N/A			N/A - model home	•	10		•		
58	75				•	•	•				excessive fan/drier use
61	68				•	•					
62	80	72-75	R/W	•	2 people, 3 aquariums, dogs	•	20	•	•	•	C5,C14,C26, box fan in master bdrm
67	76.5	75	W	•	5 people	•	20	•	•	•	
3	68	70			•	30	•	30	•		62 ●
41	77	80	W	•	2 people, 1 dog	•			•	•	
69	74	72	R	•	4 people, 1 cat	•	4		•	•	4-6 drier loads per week
7	70	65			•	•	98		•		23 ●
9	70	69-72	W	•	2 people	•	•		•	•	
31	73	75-78	R		3 people	•	•		•	•	drier 3+ times/week
43	68-70				•	•			•		excessive fan/drier use
56	71				•	•					
57					•	•					
63	75-80	R/W	•	2 people	•	•			•		

Table C-4. Visual/Interview Findings (continued)

Home ID Number	As Found Interior Temperatures (Degrees F.)		# of People, Pets & Other H2O Sources in Home	Summer Setpoint		Total Area Estimate (Sq. Ft.)	Estimated Area Covered (%)	Dryer Duct Dumping into Crawl	Suspect Unsealed Marriage Line	Doors that are Typically Closed	Manual Vent Control	Vent Control Use	Unbalanced Supplies	Other (e.g. excessive drier use)
	Degrees F.	Reported / Witnessed		Blower Setting On	Blower Setting Auto									
	Blower Setting On	Blower Setting Auto												
66	80	80-82	R/W	●	4 people	●	10	●	stains at marriage line	●	●	●	●	vent control use: rarely
2	65	70				●	●	●		●	●	●	●	39 ●
4						●	●	●		●				43 ●
8	74	75-75	W	●	4 people; 1 pet	●	25	●	C16	●	●	●	●	●
23	75	76	W		4 people, 1 dog, 1 cat	●	3	●		●	●	●	bath-off; kit-off	
38	75	72	R	●	2 people	●		●		●	●	●		●
44	67-75					●		●		●				●
46						●				●				excessive fan/drier use
47						●								excessive fan/drier use
48						●								●
49									●					●
55	69-72					●			x					●
60	67-77					●		●						●
68		72	R		6 people, 1 cat	●	20	●		●	●	●		
5	70	68				●		●	42	●	●	●		42 ●
33	76	76			2 people, 2 pets	●	1			●	●	●	bath-off; kit-off	
37	75	78	R	●	2 people	●				●		●	manual bath vent	●
42	73	85	R	●	1 person	●				●		●	manual hall vent	●
														drier use 4 times/week

Table C-4. Visual/Interview Findings (continued)

Home ID Number	As Found Interior Temperatures (Degrees F.)		# of People, Pets & Other H2O Sources in Home	Summer Setpoint		Tears in Bottom Board	Ground Cover Present	Dryer Duct Dumping into Crawl	Suspect Unsealed Marriage Line	Doors that are Typically Closed	Manual Vent Control	Vent Control Use	Unbalanced Supplies	
	Degrees F.	Reported / Witnessed		Blower Setting On	Blower Setting Auto									
	Total Area Estimate (Sq. Ft.)	Estimated Area Covered (%)		Yes	No									
45						•								
50	75-80			•										•
51	70-78													
53	72-80			•				•						C9
54	72-80			•				•						C9
59	77			•		•			•					
6	70			•	•	•	47		•	•				47 •
34	75	72-75 R	6 people, 3 fish	•	•									daily drier use (5 kids)
35	79	78 R	1 person	•	1			•		•	•	•	•	
36	76	78	1 person	•							manual utility vent	•		no drier
39	76	76 R	2 people	•		•		•	•					
40	75	72 R	1 person	•		•		•	•		manual hall vent	•		
71	74	78 R	2 people	•	•	•	100	•	•		manual mstr bdrm vent	•		
72	78	78 R	2 people	•	•	•	100	•	•		hall	•		
73	78	78 R/W	2 people (5 until recently)	•	5	•	90	•	•		hall	•		drier 2-3 hours/day
														Other (e.g. excessive drier use)

Table C-5. HVAC Equipment

Table C-5. HVAC Equipment (continued)

Table C-5. HVAC Equipment (continued)

Table C-5. HVAC Equipment (continued)

Home ID Number		A/C Capacity (Tons)		Indoor Coil Type		Filter Condition		Coil Condition		Pan Condition		Line-Set with Durable Seal to Floor		Condensate to Outside?		Inside Blower Setting (1)		Inside Blower Setting (2)		Vent Strategy		Vent Function		Ducts		Supplies		
		2-Row																										
71	3													Y				Low	Med-Low	Med	Med-High	High	Blend Air I or II	Dampered Intake at A/H				
72	3													Y										Up/On/Down-Stream of Coil				
73	2.5	•			•			•									•	•	•	•	•	•	C15	Working as Designed	Failed	Intentionally Disabled		
																								Always Off	Always On			
																								Metal	Fiber Board	Flex	Floor	
																								Attic	A/C Unit	Perimeter	Center	
																								•	•	•	•	9
																								•	•	•	•	11
																								•	•	•	•	9

Table C-6. Diagnostic Test Results

Home ID Number	House CFM50	CFM50/ Sq. Ft.	ACH50	Duct Leak, total CFM at 25Pa	Total D.L. as % of Floor Area	Duct Leak to out, CFM at 25Pa	D.L. to out as % of Floor Area	House- floor cavity A/H-side, B-side, house @- 50Pa	House- attic, house @- 50Pa & house- attic, house @- 0Pa, blend air systems	House- damaged wall cavity house @- 50Pa	House- good wall cavity house @- 50Pa	House- marriage wall cavity house @- 50Pa	House- problem wall - master bedroom closed - AHU only on
29	1960	1.61		108	9	104	9	50	50				
16	3725	1.77	12.7	510	24	510	24	34-36	34.5			32.5-35.5	
17	702	0.58		216	18	165	14	-44	-48	-23	-14		
19	2260	1.06		123	6	116	5.5	-0.49	-49				
27	2102	0.86		166	7	115	5	-49	-50	-34	-4	-34	-8
13	2148	1.128		390	20.5	320	16.8	-39	-50	-36	-22	-33	-28
14	2900	1.9	14.3	312	20	312	20		26			26.3	
28	3978	1.64		116	5	104	4	-35	-49	-26	-2	-2	
32	1223	0.97	6.47	383.5	30.44	167.5	13.29	46.8-48.5	4.3-4.9	15.8-17.3	9.8-10.3	15.8-17.3	18.5
64	1351	0.75	5.6	240	13.4	129	7.2	46	46-47			20	
65	1500	0.74	5.4	80		48	2.3	-9	48	32-42		4-14	
25	2540	1.26		524	26	509	25	48	50	39	9	37	12
52	2000	1	7.5	112	5.6	26	1.3						
70	2880	1.47	10.7	185	9.4	155	7.9			30		20-40	
26	2150	1.16		398	22	329	18	-49	-49	-10	-3	-12	-2
1	1260	1.1	6.7	177	16	123	11	-35	-47	-35	-12		
10	1850	1.001		105	5.6	105	5.6	-34	-48	-40	-26		-34
11	2075	1.32		205	13	186	12	-49	-46	-17	-27	-17	-1.9
12	1148	0.94		101	8	98	8	-43	-46	-29	-27		-1.1
30	1869	1.43	10.07			844	64.4	-50	-38	-26.2	-24	-2	-4.5
58	1900	1		258	13.2	58	3						
61	1253	1		146	11.6	55	4.4						
62	2712	1.27	9.26	118	5.5	85	4	48	-50	9	2.3		
67	1450	1.1	7.8	212	16	134	10	-1.5	50			6	
3	1618	1.4	8.6	161	14	112	10	-43	-45	-28	-36		
41	1832	2.06	14.56	221.5	24.94	129.5	14.58	-33	-11.2	-42	-32.6	-6	
69	1110	1	7.2	96	8.3	42	3.6	42	50			6.5	
7	2515	1	6.9	162	6	96	4						

Table C-6. Diagnostic Test Results (continued)

Table C-6. Diagnostic Test Results (continued)

Home ID Number	House CFM50	CFM50/ Sq. Ft.	ACH50	Duct Leak, total CFM at 25Pa	Total D.L. as % of Floor Area	Duct Leak to out, CFM at 25Pa	D.L. to out as % of Floor Area	House- floor cavity A/H-side, B-side, house @- 50Pa	House- attic, house @- 50Pa & house- attic, house @- 0Pa, blend air systems	House- damaged wall cavity house @- 50Pa	House- good wall cavity house @- 50Pa	House- marriage wall cavity house @- 50Pa	House- problem wall - master bedroom closed - AHU only on
59	2496			85		37							
6	1301	1.2	8.2	216	19	176	16	-26	-46	-38	-20		
34	2112	1.69	11.28	953.05	76.53	895.25	71.73	40	12		13.2	4.4	
35	2168	2.74	19.32		19	104	13.13	48	-16.8		-20	-6.3	
36	1210	1.87	13.2	148	22.8	68	10.5	-52.5	-40.4		-6.5		
39	1810	0.737	5.2	112.5	4.6	75.5	3.1	36-48	5		9.5-19.4	33.2	
40	1580	1.65	11.62	177	18.44	102	10.63		-3.6		-31	-5	
71	841	0.67	4.4	70	5.5	25	2				-20	0.1	
72	1383	0.82	5.5	52.5	3.1	17.5	1		-15		-15	-9.4	
73	1515	1.2	8.2	202	16	142	11	25-30	47		40	10	

Table C-7. Pressure Mapping

#	House to out, AHU Off	House to out, AHU on, doors open	House to out, master bedroom closed, AHU on	House to out, all bedrooms or all interior doors closed, AHU on	House to out, all bedrooms or all interior doors closed, AHU on, exhaust vents on, worst case	Master bedroom- living room, door closed, AHU on	Bedroom 2- living room, door closed, AHU on	Bedroom 3- living room, door closed, AHU on
29	-0.5	-2	-7.6	-11.2	-11.5	26	6	22.5
16	0.1-0.2	0.3-0.5	1.0-1.3	1.2-1.3	1.4-1.7	1.6-1.8	0.7-0.8	1.9-1.1
17	0	-1.4	-3.7	-5.3	-6.4	7.5	2.8	5.3
19	0	-0.9	-2.7	-2.9	-3.8	5.9	4.4	3.8
27	-0.2	-1.9	-2.8	-4.9	-5.9	8.4	1.4	3
13	0	-2.4	-2.9	-3.2	-3.9	2.8	0.6	1.2
14	0.2	0.5	0.8	1.2	1.3	1.1	0.6	1.4
28	0	-0.4	-1.3		-1.8	8.2		
32	0	1	-0.5	-2.4	-2.5	5.5	1.5	4.5
64	0	0	-0.8	-1	-6	4	7.5	2
65	0	-0.6	-1.4	-2	-6.2	4.2	2.8	1.2
25	0	-3.6	-3.6	-4.3	-5.4	5.3	4.2	1.7
52	0	0.25	-0.5	-1.2		5.5	1.4	2.4
70	-0.4	-0.9	-2	-2.2				
26	0	-3.9	-8.4	-8.6	-10.3	8.2	1.4	7.3
1		-1.5	-7		-9	20		
10	0	-0.3	-2	-4.2	-6.1	3.1	1.3	0.8
11	0	-1.3	-3.2	-3.2	-3.8	5.8	1.1	0.6
12	0	-3.9	-4.6	-3.3	-4.9	5.4	2	0.6
30	0	-5.5	-6.3	-6	-8.1	3.2	1.3	1.4
58	0	0		-2		2.3	1.7	1.5
61	0	0	-1	-1.8		4.8	2	1.3
62	-0.3	-0.7	-2	-2	-4.5	1	1	1.5
67	-0.6	-2	-2.5	-2.6	-10.6	2.4	1.3	1.1
3		-4.9	-8.8			15.5		
41	0.1	0.2	0.2	0.3	0	0.7		
69	0	-0.8	-2.4	-2.8	-11.5	3	5.8	0.5
7								
9	0	-3	-3	-4	-5	-4	1.4	1.2
31	0.3	-1.3	-1.9	-2.8	-4	3	1.4	1.3

Table C-7. Pressure Mapping (continued)

#	House to out, AHU Off	House to out, AHU on, doors open	House to out, master bedroom closed, AHU on	House to out, all bedrooms or all interior doors closed, AHU on	House to out, all bedrooms or all interior doors closed, AHU on, exhaust vents on, worst case	Master bedroom- living room, door closed, AHU on	Bedroom 2- living room, door closed, AHU on	Bedroom 3- living room, door closed, AHU on
43	0.1	-0.3	-1.4			5.2	5.1	3.6
56		-1.8				2.9	2.4	0.8
57								
63	0	-1.7	-5.5	-7.7	-16	15.5	6.2	5.6
66	0	0	0	-0.6	-3	2.5	1.8	
2		-1	-10			9		
4		-2	-5			13.3		
8	-4	-6.5	-6.5	-5	-7	0	0.5	1.5
23	-0.1	-1.1	-1.2	-1.4	-7.4	3.8	2.5	2.1
38	0.3	0.4	0.3	0.6	0	0.5	0.3	
44	-0.2	-2.6	-5.7	-5.8		6.7	1	3.4
46	0	-1	-1.1	2		4	2.3	2.7
47	-0.5	-0.8	-0.7	-2.5		2.8	3	6.6
48	0	-0.4	-0.9	-2		5	2.1	2.3
49	0	-1.4	-1.5	-1.2		1.3	2.1	2.1
55	0	-2.5		-4.5		2.2	1.5	17
60	0	-0.2		-1.2		4.2	1.2	1.3
68	0	-0.5	-1.8	-3.3	-9.3	6.2	3.2	2.3
5		-3.5	-3			4.5		
33	0.1	-0.9	-1.3	-3	-4.7	1.3	0.8	0.7
37	0	0	-0.3	-0.3	-1.2	0.2	0.2	
42	0	0.2	0.1	-0.2	-2	0.5	0.2	
45	0	-5.6	-7	-8		8	3.8	4.9
50			-2.2	-2.6		5.3	6.4	4.4
51		8.6	7.9	7.7				
53		-0.5	-2.75	-2.75		6.5		
54		-0.2	-3	-3		10.4		
59	0.5	-0.5		-2.2		2.8	1.7	3.1
6						5.4		
34	-2.4	-5	6	5	9	3.9	3	2.5
35	0.3	0.2	-0.1	0.3	0	0.1		

Table C-7. Pressure Mapping (continued)

#	House to out, AHU Off	House to out, AHU on, doors open	House to out, master bedroom closed, AHU on	House to out, all bedrooms or all interior doors closed, AHU on	House to out, all bedrooms or all interior doors closed, AHU on, exhaust vents on, worst case	Master bedroom- living room, door closed, AHU on	Bedroom 2- living room, door closed, AHU on	Bedroom 3- living room, door closed, AHU on
36	0.2	0.2	5.8	6	1.5	2-2.4	2.3	
39	0	-0.4	-0.6	-1.1	-2.3	4	0.2	0.2
40	0	0.2	-0.5	-1	-1.6	1.4	3.9	
71	0.2	0.7	0.1	0.1	-3	9.3	2.7	
72	0.1	-0.3	-1.1	-0.3	-2.5	7.5	1.4	1.6
73	0	-0.5	-1	-1	-1.5	5	2	2

Table C-8. Comments and Observations

#	Describe any previous repairs	Describe wall layers if possible, and if outer sheathing is "ventilated"	General Comments & Observations	Comments legend
29			Nordyne "Ventilaire" system	
16	Added gable and ridge vents, crawl space soil cover & vented dryer to outside; dryer duct was previously dumping in to crawl		Soft spot at marriage line between furnace/laundry room & kitchen (near elec/plumbing entry & connections). Significant leaks at cross-over duct connections at furnace. No soil cover under kitchen section. Significant air movement in holes in bottom board where plumbing electrical join kitchen section to mid section. Condensation visible on lower trim of marriage line beam at peak of ceiling both in kitchen & in living room. Kitchen beam is at peak of cathedral ceiling but is NOT a marriage line. No evidence of water from rain leaks. Problem existed before ridge vents added.	C16: Stains present - marriage wall ceiling
17		Wall rebuilt with foamboard and house wrap	metal/metal, 16 x 80 home; homeowner email zcmarionneaux@msn.com; Nordyne "Ventilaire" system	C17: Stains present - under vinyl floor
19			ducts are upflow type	C19: Stains present - bath
27				C27: Outlets pulled out of wall
13	C2			C13: Crossover not directly under furnace.
14	C15 - all bedrooms to living room, kitchen to outside; Floor cavity marriage line was resealed; blend air system was fixed			C14: Crossover duct poorly connected.
28	45 sheets of wallboard replaced. Manufacturer had spent full day prior to inspection sealing the duct system - duct leakage before repairs unknown		Nordyne "Ventilaire" system; kitchen/stove vent always on	C28: Condensate under home
32	Nov. '00: new ridge cap; hall bath wall replaced; closet walls replaced; microwave replaced		Homeowners report frequent staining.	
64	Floors and roof replaced; walls replaced		Main cause of problem was large duct leak and ceiling hole where furnace had been swapped out/replaced - old flue hole not sealed up; C10 - 4"-12" dia. Off peak vents added; C14 - fiberglass insulation 1'-2' short of collar	
65	C2 - Plumbing leak in guest tub repaired		Structural softening - master bath wall; A/C coil is a package unit	
25				C25: Standing water in AHU
52				
70	Roof vents, ridge vent repaired; turbine ventilators; replaced nearly all wallboard more than once; sealed marriage wall		C25: All walls wet in master bath; bowed stud in master bdrm; must smell in kitchen; water running out of outlets in master bath; standing water in pan; vent failed - alarm sounds; crossover duct inner liner not secure	
26				C26: Homeowner modifications to ductwork
1				C1: House had extra vents in walls and/or roofs as an ill conceived moisture control measure.
10	C2			C10: Mechanical attic ventilation
11	C2			C11: One room had animal care facility and large exhaust running all the time.
12	C2			C12: Supply flex fallen off from time to time.
30	Manufacturer rep. came out, said it was an A/C problem;		C9; Very very bad things happening, major supply disconnect probable	
58				
61				

Table C-8. Comments and Observations (continued)

#	Describe any previous repairs	Describe wall layers if possible, and if outer sheathing is "ventilated"	General Comments & Observations	Comments legend
62	Replaced all drywall as marriage wall had failed, couldn't match drywall	Vinyl siding; OSB; fiberglass; vinyl drywall. Not ventilated	Homeowner added a crossover duct, poorly installed; bottom board torn and not repaired	
67			Riser from package unit on B-side fallen off, collar pulled out of box, total disconnect on B-side of home. Testing of individual sides and package unit duct work showed reasonably tight duct work, except for damaged area.	
3				C3: House floors repaired/replaced before.
41	Water heater encasement floor replaced due to moisture rot		Home is a single, with an addition	
69	Leak under water heater repaired; floor insulation not replaced		Recommendations: add POS system to provide 50-75 CFM air when AHU running; add return air to bdrm, approx. 70 sq. inches; seal bottom board; replace damaged flooring with plywood; vent dryer to outside	
31	Flooring replaced twice by manufacturer; previously 4" or more of buckling in approx. 100 Sq. Ft.	outer sheathing not ventilated		
43				
56				
57				
63				
66			Stains on marriage wall at ceiling level; A/C extremely dirty - stains and filth on bottom half of coil	
7				C7: Stains on floor on cold spot directly under register.
9	None			C9: Unoccupied home (model center).
2				C2: House interior/perimeter wall board was repaired/replaced/covered before.
23	Kitchen floors repaired/replaced before.			C23: Stains present - exterior wall hallway
38			Home is a single, with an addition; return register at 50Pa had a strong odor	
4				C4: House had both vinyl covered and tape and textured wallboard. Problems seen only on vinyl covered exterior walls.
44				
46				
47				
48				
49				
55				
60				
68			\$200-\$320 per month utility bills	
8	Stains removed once before	Sheathing "ventilated" in some places		C8: Return duct disconnected at the outdoor unit.
33	Kitchen & bath room floors replaced once; bath tub replaced; some electrical outlets repaired		Linoleum floors; A/C unit is missing a condensate trap	

Table C-8. Comments and Observations (continued)

#	Describe any previous repairs	Describe wall layers if possible, and if outer sheathing is "ventilated"	General Comments & Observations	Comments legend
37	Added addition; A/C not upsized		Home is a single, with an addition; homeowner added a duct for the addition; musty odor on trailer side when depressurized; no intrusive inspections	
42	Added addition (no insulation in crawl)		C9 - seasonal residents; home is a single, with an addition; musty odor on addition side of home when depressurized	
45				
5				C5: Very high utility bills >\$300 up to \$500/month.
50				
51				
53				
54				
59				
6				C6: Extra window a/c added as house could not be cooled.
34	Trim on counters repaired		Manual vent in utility used when drier is on; family room fan shows a heavy dirt/dust buildup; house had a total supply duct disconnect	
35			C12; Home is a single, with an addition	
36			Home is a single, with an addition; homeowner added a duct for the addition	
39				
40			Home is a single, with an addition; resident has not lived in home for full year	
71				
72				
73	Skylight flashing leak in hall bath, repaired 12 months previously			