State of North Dakota
Weatherization Assistance Program
Diagnostic Field Form

Name:	Job#	Date:

BLOWER DOOR TEST DATA & BLOWER DOOR GUIDED AIR SEALING (WCEG)

Test Conditions:	Baseline pressure: Pa	Door Opening Used:

Test	***CFM_{50}***		**CEG/100 CFM_{50} = $**		
Initial Test		*No. in Crew*	*Minutes*	*CFM_{50} Reduction*	*Cost / 100 CFM_{50}*
Test 1					
Test 2					
Test 3					
Test 4					
Test 5					
Final Test			Building Tightness Limit =		

ZONE PRESSURE TESTING (ZPT)

Zone:	Test 1	Test 2	Zone:	Test 1	Test 2
House/Zone, P_1			House/Zone, P_1		
Zone/Outside, P_1			Zone/Outside, P_1		
Hole Added	H/Z or Z/O	H/Z or Z/O	Hole Added	H/Z or Z/O	H/Z or Z/O
Hole in^2 or Door-Open CFM_{50}			Hole in^2 or Door-Open CFM_{50}		
House/Zone, P_2			House/Zone, P_2		
Zone/Outside, P_2			Zone/Outside, P_2		
CFM_{50} House/Zone			CFM_{50} House/Zone		
CFM_{50} Zone/Outside			CFM_{50} Zone/Outside		
CFM_{50} Total Path			CFM_{50} Total Path		

DUCTWORK LEAKAGE/AIR HANDLER ASSESSMENT

Room-to-Room Pressure Testing

#	Room	Test	#	Room	Test
1			6		
2			7		
3			8		
4			9		
5			10		

If a room is more than 3 Pascals different from main body of house, relieve pressure.

Does a fireplace or woodstove draw any portion of its combustion air from a zone that is depressurized more than -3 Pascals WRT outside? *If so, relieve pressure.*

Duct Leakage to Outdoors (Test at 25 Pascals Positive)

	Test 1	Test 2
Test pressure	Pa	Pa
Flow ring used (circle one)	Open, 1, 2, 3	Open, 1, 2, 3
Fan pressure	Pa	Pa
Fan flow (leakage to outdoors)	CFM	CFM
Inches^2 leakage to outdoors	in^2	in^2
CFM leakage as percentage of conditioned floor area	%	%

PRESSURE PAN TESTING AND LEAKAGE ASSESSMENT

#	Room	M*	Test 1	M*	Test 2	#	Room	M*	Test 1	M*	Test 2
1						8					
2						9					
3						10					
4						11					
5						12					
6						13					
7						14					

Pressure Pan Multipliers, M*

House/ Zone Pressure	*Pressure Pan Multiplier*
50	1.0
45	1.1
40	1.25
35	1.42
30	1.66
25	2.0
20	2.5
15	3.5
10	5.0
5	10.0

Duct Leakage Standards *(refer to Field Standards for details)**:***

Mobile Homes:

1) If belly return, convert to living space return system.
2) For living-space return, if sum of adjusted pressure pan readings is 3 or less, check furnace/plenum joint and all boots. Seal if necessary.
3) For living-space return, if sum of adjusted pressure pan readings is between 3 and 5, do above and check and repair any crossover ducts. Reduce sum of adjusted pressure pan readings to 3 or less.
4) For living-space return, if sum of adjusted pressure pan readings is more than 5, do above and implement duct blower guided duct repair and sealing. Goal is to reduce duct leakage to the outdoors, as measured with duct blower and blower door, to 10 percent of floor area.

Site-Built Homes, Including Manufactured Housing:

1) For ducts located in unconditioned spaces: a) use duct blower to determine duct leakage to outdoors; b) repair, seal, and insulate ducts to at least R-8; c) Goal is to reduce duct leakage to the outdoors, as measured with duct blower and blower door, to 10 percent of floor area.
2) For ducts located in conditioned spaces: a) try to convert alter space so that it is conditioned; b) always repair disconnected ducts; c) preferred to seal and insulate space envelope rather than ducts; d) perform zone pressure diagnostics on space (house-to-zone pressure should be 20 Pascals or less).