CT W	/AP	QUALITY	CONTROL		QCI FIN	AL INS	PECTI	ON
Agenc	y:		DATE:		OUTSIDE T	ЕМР:		
JOB N	0.		JOB	NAME:				
ADDR	ESS:		РНС	NE:				
CITY:				CONTR	ACTORS:	:		
COND	OUCT PRE-INSPECTION DESK	<u>REVIEW</u>				<u>PASS</u>	<u>FAIL</u>	<u>NA</u>
	Confirm the Inspection Appoi	ntment.	Date:	Time:				
	Perform Desk Review on Clier Review Energy Audit Input Do Review the Work Order and S Do the prescribed measures n Review diagnostic test results	cument for comp IR Report. natch the informa	ation in the Audit Ir	nput Document?				
PERFO	ORM IN-PROGRESS/FINAL CL	IENT INTERVIEV	<u>N</u>			<u>PASS</u>	<u>FAIL</u>	<u>NA</u>
	Note: Much Conduct announced or una Perform random sampling of Specifically ask about the profit Determine homeowners final	nnounced inspe of Job Site docu fessionalism of th	ments for In-Prog e workers.	/3 or 33% of tota	al jobs	SDS, Cer	rtificate	es)
	Excellent	Good $\square$	Fair 🔲	Poc	or 🔲			
	Excellent   What was your comfort level v	Good	Fair 🔲		or 🔲			
	· <u>-</u>	Good   Good	Fair	Pod	or 🔲			
	Did they schedule the work ap	propriately, time	wise?					
	Excellent   Did they clean up after themse	Good   elves every day?	Fair 🔲	Poc	or 🔲			
Recor	d Client's answers and note for							
	Inform Client about your QC in	spection process	and that you will s	hare your results				

IIV-PK	OGRESS CONTRACTOR WORK ORDER REVIEW					
			<u>PASS</u>	<u>FAIL</u>	<u>NA</u>	
	Observe worker's installation skills, safety and p	rofessionalism.				
	Identify measures that would have required fall	protection.				
	Identify appropriate respirator requirements for	measures in WorkOrder.				
	Identify appropriate PPE in relation to work in co	onfined spaces.				
	Identify appropriate PPE in relation to the measi	·				
П	Identify any potential Jobsite Hazards or Health		$\overline{\Box}$	П	П	
	Random sample of job site documents: PMI, MS	,	$\overline{}$	$\overline{\Box}$	П	
	Verify the installed measures listed on the work		$\overline{\Box}$		$\overline{\Box}$	
	Review the work in-progress in relation to the w	ork plan	H	Ä		
	Discuss whether there is a need to run additiona	al diagnostic tests	H	H	H	
	Check whether there are any missed opportunit	ies in the audit or work plan				
	Note any discrepancies with the audit				님	
	Note any damage to the house that may have been from the contractor			Ц	Ц	
	Document any non-conformances issues on the home or work order from audit so far $\Box$			Ш	Ш	
_	☐ Review Findings with homeowner, Discuss Call Backs - Return To Office - Review the Invoices					
Ш	Review Findings with homeowner, Discu	ıss Call Backs - Return To Office - Re	eview th	e Invo	ices	
DEDEC						
PERFO	Review Findings with homeowner, Discu		PASS	e Invo	ices <u>NA</u>	
PERFO	DRM EXTERIOR AND INTERIOR INSPECTION IN					
PERFO	Perform exterior inspection/walk around.	N-PROGRESS/FINAL				
PERFO	Perform exterior inspection/walk around.  Activate Gas Sniffer and Test Outside Meter/Line	N-PROGRESS/FINAL es While Outside				
PERFO	Perform exterior inspection/walk around.  Activate Gas Sniffer and Test Outside Meter/Line Activate Personal CO Monitor before entering he	es While Outside ouse.				
PERFO	Perform exterior inspection/walk around.  Activate Gas Sniffer and Test Outside Meter/Line Activate Personal CO Monitor before entering he Test outdoor ambient CO level. (35 PPM Max.) [	es While Outside ouse.				
PERFO	Perform exterior inspection/walk around.  Activate Gas Sniffer and Test Outside Meter/Line Activate Personal CO Monitor before entering he Test outdoor ambient CO level. (35 PPM Max.) I Perform interior inspection/walk around.	es While Outside ouse.  Document results:				
PERFO	Perform exterior inspection/walk around.  Activate Gas Sniffer and Test Outside Meter/Line Activate Personal CO Monitor before entering ho Test outdoor ambient CO level. (35 PPM Max.) If Perform interior inspection/walk around.  Test indoor ambient CO level. (35 PPM Max.) Do	es While Outside ouse.  Document results:				
PERFO	Perform exterior inspection/walk around.  Activate Gas Sniffer and Test Outside Meter/Line Activate Personal CO Monitor before entering he Test outdoor ambient CO level. (35 PPM Max.) I Perform interior inspection/walk around.  Test indoor ambient CO level. (35 PPM Max.) Do Activate Gas Sniffer Outside and Test Inside App	es While Outside ouse.  Document results:  liances/Lines				
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PERFO	Perform exterior inspection/walk around.  Activate Gas Sniffer and Test Outside Meter/Line Activate Personal CO Monitor before entering he Test outdoor ambient CO level. (35 PPM Max.) If Perform interior inspection/walk around.  Test indoor ambient CO level. (35 PPM Max.) Do Activate Gas Sniffer Outside and Test Inside App Utilize soap or other leak detection liquid/spray	es While Outside ouse.  Document results:  liances/Lines to verify leakage areas.	PASS			
PERFO	Perform exterior inspection/walk around.  Activate Gas Sniffer and Test Outside Meter/Line Activate Personal CO Monitor before entering he Test outdoor ambient CO level. (35 PPM Max.) If Perform interior inspection/walk around.  Test indoor ambient CO level. (35 PPM Max.) Do Activate Gas Sniffer Outside and Test Inside App Utilize soap or other leak detection liquid/spray	es While Outside ouse.  Document results:  liances/Lines to verify leakage areas.  TION SAFETY ACTION LEVELS  100 - 400 OR FAIL STOP WORK	PASS			
PERFO	Perform exterior inspection/walk around.  Activate Gas Sniffer and Test Outside Meter/Line Activate Personal CO Monitor before entering he Test outdoor ambient CO level. (35 PPM Max.) I Perform interior inspection/walk around.  Test indoor ambient CO level. (35 PPM Max.) Do Activate Gas Sniffer Outside and Test Inside App Utilize soap or other leak detection liquid/spray  WH & FURNACE COMBUST  0 - 25 PPM = PASS PROCEED	es While Outside ouse.  Document results:  liances/Lines to verify leakage areas.  TION SAFETY ACTION LEVELS  100 - 400 OR FAIL STOP WORK	PASS	FAIL		

<u>GENE</u>	RAL HEALTH & SAFETY OVENS 200 PPM as measured 800 PPM Air Free	PASS PASS	<u>FAIL</u>	<u>NA</u>
	Observe interior of gas oven and boiler for items or excessive debris.			
	Turn Exhaust Fan On. Observe condition of burners and flame on gas stove range top.  Fire stove top observe condition of burners and flame - then shut off  Conduct CO test for oven. Steady State 2-5 Min. Record Results:  Measure the Temperature of the Hot Water at the Faucet  (120 Max)  (Kitchen/bathroom/laundry). Record Results.			
Ш	Suggest owner to set Water Temperature to 120 degrees (Energy Saver)			
<u>DIAG</u>	NOSTICS AND HEALTH & SAFETY TESTING			
BLOW	/ER DOOR DEPRESSURIZATION TEST Pf/Pf @50	PASS	<u>FAIL</u>	<u>NA</u>
	Set combustion appliances to pilot or disable them.  Prepare home like winter - open interior doors.			
	Disable exhaust fans, remove 1 ceiling tile Set up the blower door frame/shroud/fan. Set manometer Pr/Flow @50 Measure Baseline Pressure - then Zero Adjust		000	
	Measure pressure at CFM 50 Document Results:	片	H	님
	Conduct walk through in home during test to identify any potential problemareas.  Pressure Pan  Pressure Pan			
PRESS	Identify Supply/Return ducts contained in unconditioned areas.  Pr/Pr  Pr/Pr	PASS	FAIL	NA
	Disable furnace and remove filter, tape filter slot.	"	ш	ш
	Open grills, registers, and dampers			
	Depressurize Home to - 50 Pa - Verify Manometer Setup  Measure registers/grills in unconditioned areas. Record Results  Identify needed corrective actions/measures.			
	ore than half of the readings shall be higher than 4.0 and No ure reading shall be greater than 8.0 To Zone	1		
	TESTING (WRTO 0-5 GOOD)	PASS	<u>FAIL</u>	<u>NA</u>
	Identify any unconditioned zones in home.			
	Verify manometer setup for zone testing. Adjust Baseline WRTO			
	Depressurize Home to - 50 Pa - Verify Manometer Setup  A B	l _		
	Measure zone pressure and compare results to QCI Standards Table -			
	Identify needed corrective actions/measures.	, u	Ш	Ш
	ATTIC CRAWL GARAGE	0	- 5   45	<mark>- 50</mark>

WRTO WRTI

(Comments, Details)	

CAZ TE	EST - (Check Furnace Filte	r and Dryer Lint Screen	n)	CAZ Zone			<u>PASS</u>	<u>FAIL</u>	<u>NA</u>
	Identify CAZ. Disable Ap	pliances			<del> </del>				
	Prepare home setup for	winter (natural) condit	tions.		4	B			
	Verify manometer setup	o for CAZ testing. Pr/	Pr			•			
	Measure baseline presson Initiate all exhaust fans/ Initiate HVAC air handle Position interior doors to Measure worst-case CA	dryer Record Reading:  o place home in Worst		•	Outs on.	side			
COMB	USTION SAFETY AND EFF	ICIFNCY TESTS					PASS	FAIL	<u>NA</u>
П			ahlams				<u>FA33</u>		
	Conduct visual inspection	,		en c			H	H	
	☐ Identify any pre-test HVAC System component safety concerns. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐					H	H		
<ul> <li>☐ Identify any pre-test Water Heater (DWH) system components safety concerns.</li> <li>☐ Monitor Ambient CO Levels in the CAZ During All Test Procedures.</li> </ul> Record:					ıÄ	H	H		
	FIRE-UP WATER HEATER	_	All rest rioce	aures.	Record.		п	П	H
			conditions				' H	H	H
	Observe Water Heater for Spillage Under WCD conditions.  Measure waterheater spillage (60 Sec BPI/2 Min SWS) Record Time:						H		
	CAZ LIMITS								
	<b>Orphaned Natural Draft</b>	t Waterheater - 2.0 Pa	a						
	Natural Draft Waterhea			rnace or Boi	ler - 3.0 Pa				
	Stand Alone Natural Dr								
	Natural Draft Wood Sto								
	ACCEPTABLE DRAFT TES	ST RANGES - AT TEMPE	RATURES		OUTSIDE TE	MPERA	ATURE?		F
	<10	-	2.5						
	10-90	(Outside Te	emp/40) - 2.7	75	CALCULA	TE IT:			Pa
	>90	-	-0.5						
	MEASURE WATER HEAT MEASURE CO IN WH FLU		T. RECORE	O READING:		Pa PPM	PASS	FAIL	NA
	Identify corrective actio	ns/measures if HW doe	es not PASS sp	oillage, draft,	or CO test.				
	PERFORM COMBUSTION	N TEST AT STEADY STA	TE ON WATE	RHEATER					

	FIRE-UP FURNACE FOR TESTING						
	Observe heating system for spillage	under WCD conditions (natural draf	tonly).				
	Measure time for heating system sp	illage: 60 Sec If Applicable	Sec				
	MEASURE FURNACE DRAFT - (existi	ng weather conditions) - RECORD:	Pa				
	MEASURE CO IN FURNACE (200 PPM	M) - RECORD LEVEL:	СО				
	Identify corrective actions if heating	system does not PASS spillage, draf	t, or COtest.				
	RE-TEST WATERHEATER DRAFT WH	ILE FURNACE IS RUNNING RECORD:	Pa				
	Measure Heat Rise Delta T in Heatin	g System - Record Number	F				
	Inadequate Heat Rise	Heat Rise Good For Both	Heat Rise Excessi		k Fan,		
	Condensation Corrosion	40. 70	Air Flow, Fa				
	20 - 40	40 - 70	70 - 9	95			
DUCT	PRESSURIZATION TEST (DUCT BLASTE	ER) Hose to Duct		Hose to	Blaster	Fan	
	DB B	25 CFM TEST	DB B				
	Turn Furnace Off/Remove Filter/Fans Off						
	Open Window or Door To Allow WRT Outside						
	Seal All Supply Registers						
	Attach Flex to Return with Template	Attach	A B				
	Flex Hose to Fan No Rings ALL OPEN		Open	Open			
	Verify manometer setup for Duct Pre	essurization					
	CONDUCT DUCT PRESSURIZATION T						
COND	DITIONED SQUARE FEET /100 X 8 =			PASS	FAIL	<u>NA</u>	
Ц	Identify needed corrective actions/n	neasures.		Ш	Ш	Ш	
ASHRA	AE 62.2 and EXHAUST FAN FLOW TEST	<b>TING</b>		<u>PASS</u>	<u>FAIL</u>	<u>NA</u>	
	Mode 1v - D	vevice 5x - Config for Opening Size	2				
	Wode IX - D	evice 3x - Coming for Opening 3126					
	Complete ASHRAE Spreadsheet with	n final BD readings, determine final f	an <del>s</del> ettings.				
Set manometer to EX and Config for Flow H Pr/CFM  Verify manometer setup for fan flow testing.  Pr/CFM EX							
	Measure fan flow and adjust fan to	required ventilation flow.					
	FAN HIGH FAN LOW	FAN TIME	• •				
	7						
	Hose To Flow Meter						

<u>Evalua</u>	ate Installed Weatherization Measures	<u>PASS</u>	<u>FAIL</u>	<u>NA</u>
	Review all installed measures against those listed on Work Order.  Verify installed measures listed on Work Order  Document any assessment/energy audit discrepancies or missed opportunities.  Document any damage potentially caused by workers.  Compare work completed to Weatherization Standards, SWS or state and local codes.  Document any non-conformances to WX Standards, SWS or State and Local Codes.  Determine if any problems were Material or Work related.  Document any work problems that FAIL for quality, quantity, or non-conformance.  Create (if needed) a Callback/Rework Punch List for any required corrections.		00000000	
Deter	mine PASS/FAIL of the Work - Identify Work Problems	PASS	<u>FAIL</u>	NA
<u>Deter</u>	The transfer and the two in the transfer and the transfer	<u> </u>	IAIL	<u>IVA</u>
0000	Review the results of your inspection observations and documents.  Compare original assessment/energy audit diagnostic tests with your QCI results.  Make a determination of PASS or FAIL of the work based on the QCI results.  Complete any addition items on the Callback/Rework Punch List.  Turn Furnace and Water Heater Back to Pre-Inspection Settings			
Ы				
<u>Final (</u>	Client Interview	<u>PASS</u>	<u>FAIL</u>	<u>NA</u>
	☐ Interview Client regarding the level of satisfaction with the Program.  Excellent ☐ Good ☐ Fair ☐ Poor ☐  Were you satisfied with the overall Weatherization Program?			
	Excellent Good Fair Poor	П	П	П
	Do you notice any comfort changes or lower utility Bills?			
	Excellent Good Fair Poor		П	П
	Is there anything we could do to improve the Program?			
000	Share a summary of your inspection results with the Client.  Explain the operation and maintenance smoke/CO detectors, furnace filters, etc.  Ensure client has all information, operation manuals, for measures installed.  Obtain the Client's signature and comments on the required documentation.		0001	0000

Close Out the Project and Maintaining File and Records	<u>PASS</u>	<u>FAIL</u>	<u>NA</u>
<ul> <li>□ Callback Items were completed and inspected before closing the job.</li> <li>□ All items were installed and costs from the Work Order match up with the invoices.</li> <li>□ Ensure that all relevant signatures were obtained, and the file is complete.</li> <li>□ Ensure that all job logs, notes, and documentation is retained and complete.</li> <li>□ Ensure that any job anomalies are documented.</li> <li>□ Ensure that any information on active complaints is maintained and documented.</li> </ul>			
SUMMARY OF INSPECTION AND NOTES			
Client Name: (Printed)			
Signaturo			
Signature:			
Local Agency QCI: (Printed)			
Signature:			
Jight ture.			
State Agency QCI: (Printed)			
Signature:			
State Agency Meniter: (Printed)			
State Agency Monitor: (Printed)			
Signature:			
Comments: (Continued on next page if needed) Field Guide, SWS Reference	ce #, V	ariance	e Req.

Comments:	Field Guide, SWS Reference #, Variance Req.