		- //	pleted only by contractors officially enrolled in the Quality HVAC program who have su				
01	UALIT	1	Quality HVAC Program Quality Maintenance Call Tier II Checklist				
_			Company Name & CSLB Number:				
Kesiue 	ential HVAC Servi	.ces _I	Household Last Name & Street Number:	7			
		,	Customer email:	Service Date:			
DIR	ECTIONS: This	com	nprehensive checklist is to be completed onsite and uploade	ed to Iris. Certain key findings indicated by			
			ust be reviewed with and signed off by the customer. This customer review can be done using this				
			ality Service Report you will get by email. The key findings n	-			
			v.formstack.com/forms/qmc_ii	,			
			INSPECTIONS				
		4	O No Further Attention Needed on Attic Insulation	V			
o u		5	□ NA – no attic / not accessible	All sections must be completed. If they are Not Applicable, write "NA" and add an explanation in			
ılati		6	☐ Adequate and in good condition	the comments box.			
Attic Insulation	Results	7	☐ Needs minor adjustments				
tic		8	O Further Attention May Be Needed on Attic Insulation	Remember, boxed values must be entered online			
¥		9	□ Needs more insulation				
		10	□ Needs replacement				
		12	O No Further Attention Needed on Duct Insulation				
c		13	□ NA – ductless system				
tior		14	□ NA – ducts not accessible				
ula.		15	☐ Ducts in conditioned space				
Ins	Results	16	☐ Adequate and in good condition				
Duct Insulation		17	☐ Vapor barrier has only minor tears or gaps				
Ω		18	O Further Attention May Be Needed on Duct Insulation				
		19	☐ Inadequate or in very poor condition				
		20	☐ Vapor barrier has significant tears/gaps or no barrier				
		22	O No Further Attention Needed on Air Filter				
		23	□ NA – no filter needed				
ier		24	☐ Filters are adequate				
Filte	Results	25	☐ Minor fouling ☐ Further Attention May Be Needed on Air Filter	4			
Air		26	O Further Attention May Be Needed on Air Filter				
		27	☐ Extremely fouled☐ No filter☐ Do no filter				
		28	☐ Undersized for system				
		31	 Undersized for system No Further Attention Needed on Ventilation Mechanism 				
E		27	☐ All bathrooms have fans and kitchen hood works and	-			
anis		32	exhausts to outside				
ech		33	■ Has ERV or HRV				
ž	Results	34	☐ HVAC has outside air duct				
Ventilation Mechanism	ncsu.s.	35	O Further Attention May Be Needed on Vent. Mechanism	1			
ilat		-	☐ Some bathrooms have no operating fans or don't exhaust				
ent		36	to outside				
> _		37	☐ Kitchen hood not functioning/doesn't exhaust outside	Futar and thing the quotomor should			
11	NSPECTION		Witterferr Hood flot ratherioning, account comments	Enter anything the customer should know and explain anything that is			
	Comments,		1	Not Applicable (NA)			

Recommendations, and/or NA Explanation

TESTS						
Static Pressure		81	Supply Static Pressure		IWC	= Supply SP - return SP;
	Results	82	Return Static Pressure		IWC	≤ 0.7 required if ductwork
		83	Total External Static Pressure		IWC ~	is new
ā	System Mode	86	O Heating Mode			
Temperature Split	During Test	87	O Cooling Mode			For heating = supply -
perat Split	Results	89	Supply Air Temperature		°F	return, ideally 25-65
ua 6,		90	Return Air Temperature		°F	For cooling = return -
ř		91	Temperature Split		°F /	supply, ideally 15-25
	Rationale for Test	109	Confirmed that Charge Test was Warranted	l		
		110	☐ Bad temperature split			
		111	Comfort complaints across rooms			
		112	Observed presence of oil suggesting leaks			
		113	☐ Other (please explain in comments box)			
		115	☐ Did Troubleshooting Before Charge Test	ļ		
		116	☐ Restricted filter flow			
		117	☐ Collapsed/disconnected ductwork			
		118	☐ High TESP			
		119	☐ High DP across coil☐ Ducts are too small☐			
		122	Was Lowest Outdoor Air Temperature <55°F?	O Yes O No		
		125	If YES, how was test done?	3 163 3 110		
		126	☐ In cooling mode with condenser outlet restrictor			
st		127	☐ Evacuated and used weigh in method			
Te	Test Procedure	128	☐ Made plans to return when temperatures are higher			
Charge Test		129	☐ Other (please explain)			
Cha			Metering Device and Test Completed:			
		130	O TXV/EXV: did SC test			
			O Fixed Orifice: did SH test		_	- refrigerent line terms
	Results	132	Target SC or SH		°F —	= refrigerant line temp - saturation temp
		133	Measured SC or SH		°F	= target - measured SC or
		134	Difference from Target		°F —	SH; ideally 0
	Diagnosis	136	☐ Charge OK			
		137	☐ Charge Too High			
		138	☐ Charge Too Low			
		139	☐ Another Problem			
		141	☐ Discussed with Customer			vered charge, must also
	Resulting	143	☐ Recovered Charge ☐ Added Charge			frigerant Management section ding taking a photo.
	Action Taken	143	☐ Provided Bid	(lield #30	<i>J</i> 1), inclu	ding taking a prioto.
		145	☐ No Adjustment Made			
	TEST	1.0	a No Aujustinent Mude			
C	omments,					
	nmendations,	147				
and/or NA Explanation						
		241	ADJUSTMENTS ☐ Thoughts on Current Thermostat and Settings			
5	Talked to	241	☐ Current Strategies for Controlling Temperatures			
aniing		242	☐ Interest in Advanced Strategies			Response, Setbacks,
stat	Occupant About	243	☐ Recommended Thermostat Schedule	Precooling	j, inermo	ostat Eco Modes.
Thermostat and Programming	ADOUL	244	☐ Other Recommendations, ex. Thermostat Upgrade			
her	Adjusted and	247	☐ Checked Sensor Calibration and Adjusted as Needed			
F	Confirmed	247	☐ Reviewed Programming			
	Committee	2+0	- neviewed i rogramming			

	Scheduled Program	250	☐ NA – Not Needed, Already Efficiently Programmed	
Thermostat and Programming (Cont.)		251	☐ Offered but Customer Declined	
		252	☐ Thermostat Schedule Programmed	7
	Programming	254	☐ Offered Instruction but Customer Declined	
	& Overrides	255	Programming and Override Instruction Provided	7
	Setup App or	259	☐ Offered Assistance but Customer Declined	
T gol	WiFi	260	☐ Assisted Customer in Installing or Connecting App	
_ 4	Uploads	262	☐ PDF or Photo of Recommended or Final Programming	
at np		265	Supplementary Heating OAT Lockout Setpoint	°F ——Ideally ≤ 35
Heat Pump	Settings	266	Defrost Delay Timer Setting	Minutes — Ideally ≥ 90
		298	Refrigerant Type	
ging		299	Cannister Weight Before Adjustment	Ib:oz = Reading before -
har		300	Cannister Weight After Adjustment	lb:oz reading before -
Evacuation and Charging	Refrigerant	301	Amount of Refrigerant Added or Recovered	±lb:oz
au	Management	302	☐ Upload Photo of Scale After Charging, or Final SC/SH	
tior	Widilagement	303	Name of Technician	
cna		304	Date	
Eva		305	Serial Number of Equipment that was Adjusted	
		306	Serial Number of Cannister	
ser		310	☐ Condenser Coil Cleaning Met all Following Criteria:	_
nden: Coils	Cleaning	311	☐ High pressure cleaning system was not used	
Condenser Coils	Criteria	312	☐ Caustic or fuming coil cleaning chemicals not used	
0		313	☐ Flushed with water	
	DJUSTMENT			
С	omments,	24.4		
C Recor	omments, mmendations,	314		
C Recor a	omments, mmendations, and/or NA	314		
C Recor a	omments, mmendations,	314		
C Recor a	omments, mmendations, and/or NA	314	SERVICE COMPLETION	
Recor a Ex	omments, mmendations, and/or NA xplanation	314	SERVICE COMPLETION □ Enrolled Customer in Maintenance Contract	
Recor a Ex	omments, mmendations, and/or NA			
C Recor a	omments, mmendations, and/or NA explanation Maintenance	323 324	☐ Enrolled Customer in Maintenance Contract ☐ Customer Declined Offer of Maintenance Contract	
Recor a Ex	omments, mmendations, and/or NA explanation Maintenance	323 324 327	☐ Enrolled Customer in Maintenance Contract ☐ Customer Declined Offer of Maintenance Contract ☐ OEM Installation/Service Manuals or URLs	
Recor a Ex	omments, mmendations, and/or NA explanation Maintenance	323 324 327 328	 □ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans 	
Recor a Ex	omments, mmendations, and/or NA explanation Maintenance Contract	323 324 327 328 329	 □ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info 	
Contract	omments, mmendations, and/or NA explanation Maintenance	323 324 327 328 329 330	 □ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming 	Mark all that apply
Contract	omments, mmendations, and/or NA explanation Maintenance Contract System	323 324 327 328 329	 □ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable 	Mark all that apply
Contract	omments, mmendations, and/or NA explanation Maintenance Contract System Manual	323 324 327 328 329 330 331	 □ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork 	Mark all that apply
Contract	Maintenance Contract System Manual Contents	323 324 327 328 329 330 331 332	 □ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable 	Mark all that apply
Recor a Ex	Maintenance Contract System Manual Contents	323 324 327 328 329 330 331 332 333	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information	Mark all that apply
Contract	Maintenance Contract System Manual Contents	323 324 327 328 329 330 331 332 333 334	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information □ Any New Information	Mark all that apply
Contract	Maintenance Contract System Manual Contents	323 324 327 328 329 330 331 332 333 334 335	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information □ Any New Information □ Maintenance Plan □ Quality Service Report from Current Service □ Mounted on Indoor Unit	Mark all that apply
Contract	Maintenance Contract System Manual Contents Added Location of Manual	323 324 327 328 329 330 331 332 333 334 335 336	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information □ Any New Information □ Maintenance Plan □ Quality Service Report from Current Service □ Mounted on Indoor Unit □ Provided in Binder	Mark all that apply
Contract	Maintenance Contract System Manual Contents Added Location of	323 324 327 328 329 330 331 332 333 334 335 336 338 339	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information □ Any New Information □ Maintenance Plan □ Quality Service Report from Current Service □ Mounted on Indoor Unit □ Provided in Binder □ Photo of System Manual	Mark all that apply
System Manual Contract	Maintenance Contract System Manual Contents Added Location of Manual	323 324 327 328 329 330 331 332 333 334 335 336 338	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information □ Any New Information □ Maintenance Plan □ Quality Service Report from Current Service □ Mounted on Indoor Unit □ Provided in Binder □ Photo of System Manual Review the following programs with the customer:	
System Manual Contract	Maintenance Contract System Manual Contents Added Location of Manual Uploads	323 324 327 328 329 330 331 332 333 334 335 336 338 339	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information □ Any New Information □ Maintenance Plan □ Quality Service Report from Current Service □ Mounted on Indoor Unit □ Provided in Binder □ Photo of System Manual Review the following programs with the customer: □ TECH Clean California: \$1,000 incentives for new single family heat provided in the customer of the cust	ump HVAC systems (up to two systems per home).
System Manual Contract	Maintenance Contract System Manual Contents Added Location of Manual Uploads Referral to	323 324 327 328 329 330 331 332 333 334 335 336 338 339	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information □ Any New Information □ Maintenance Plan □ Quality Service Report from Current Service □ Mounted on Indoor Unit □ Provided in Binder □ Photo of System Manual Review the following programs with the customer: □ TECH Clean California: \$1,000 incentives for new single family heat programs are contractors and the project must be a TECH-enrolled contractor, 2) project must be	ump HVAC systems (up to two systems per home). a non-heat pump to heat pump installation, 3) no new
System Manual Contract	Maintenance Contract System Manual Contents Added Location of Manual Uploads Referral to Other	323 324 327 328 329 330 331 332 333 334 335 336 338 339 341	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information □ Any New Information □ Maintenance Plan □ Quality Service Report from Current Service □ Mounted on Indoor Unit □ Provided in Binder □ Photo of System Manual Review the following programs with the customer: □ TECH Clean California: \$1,000 incentives for new single family heat programs are the provided contractor, 2) project must be construction, retrofits only, 4) equipment must be AHRI matched systems standards. See https://techcleanca.com/.	ump HVAC systems (up to two systems per home). a non-heat pump to heat pump installation, 3) no new s, and 5) equipment must meet Title 24 code minimum
System Manual Contract	Maintenance Contract System Manual Contents Added Location of Manual Uploads Referral to	323 324 327 328 329 330 331 332 333 334 335 336 338 339 341 344	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information □ Any New Information □ Maintenance Plan □ Quality Service Report from Current Service □ Mounted on Indoor Unit □ Provided in Binder □ Photo of System Manual Review the following programs with the customer: □ TECH Clean California: \$1,000 incentives for new single family heat programs are provided in the construction, retrofits only, 4) equipment must be AHRI matched systems standards. See https://techcleanca.com/. □ GoGreen Financing: GoGreen Home provides California residents with	ump HVAC systems (up to two systems per home). a non-heat pump to heat pump installation, 3) no new s, and 5) equipment must meet Title 24 code minimum in financing for energy efficiency upgrades with zero fees
Contract	Maintenance Contract System Manual Contents Added Location of Manual Uploads Referral to Other	323 324 327 328 329 330 331 332 333 334 335 336 338 339 341	□ Enrolled Customer in Maintenance Contract □ Customer Declined Offer of Maintenance Contract □ OEM Installation/Service Manuals or URLs □ Drawing or Plans □ Installing and Maintenance Contactor Contact Info □ Recommended / Final Thermostat Programming □ Refrigerant Charge Data, if Applicable □ HERS Compliance and Verification Paperwork □ Commissioning and/or Air Balancing Information □ Any New Information □ Maintenance Plan □ Quality Service Report from Current Service □ Mounted on Indoor Unit □ Provided in Binder □ Photo of System Manual Review the following programs with the customer: □ TECH Clean California: \$1,000 incentives for new single family heat programs are the provided contractor, 2) project must be construction, retrofits only, 4) equipment must be AHRI matched systems standards. See https://techcleanca.com/.	ump HVAC systems (up to two systems per home). a non-heat pump to heat pump installation, 3) no new s, and 5) equipment must meet Title 24 code minimum in financing for energy efficiency upgrades with zero fees nat the property receive electric or natural gas service

Other Programs (Cont.)	Referral to Other Programs (Cont.)	344c	storage technologies. The current residential incent	at Might be of Interest to Customer: PGE-5 BayREN Air Conditioning Rebate SDGE-1 Residential Energy		
COMPLETION Comments, Recommendations, and/or NA Explanation		346				
	SIGNATURES					
☐ Electronic signatures will be uploaded later, after review of the emailed Quality Service Report, at: https://frontierenergy.formstack.com/forms/qhvac_claim_signature_attachment ☐ Signatures have been obtained below after review of boxed values in this checklist						
Customer Name		Customer Name	Technician Name			
Customer Signature I hereby certify that I reviewed the above key findings with the			-	Technician Signature		
technician. I understand that this does not signify that I am select- ing this contractor or accepting this bid.			d that this does not signify that I am select-	I hereby certify that I reviewed the above key findings with the home decision maker.		
The Quality Residential HVAC Services Program is funded by California utility customers under the auspices of the California Public Utilities Commission and implemented by Frontier Energy under a contract awarded by San Diego Gas & Electric Company (SDG&E®). Customers who choose to participate in this program are not obligated to purchase any additional services offered by the contractor. Actual savings may vary. The trademarks used herein are the prope rty of their respective owners.						