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1.0.2.4 NFRC label on Glazed Door(s) 1.0.2.5 Photo of Opaque Door(s) 1.0.2.6 Photo of exterior access doors (roof access, attic access, etc.) Notes: 1.0.3 Infrared Photos: Perform a thorough IR scan of the building thermal envelope. Provide representative photos, including, but not limited to: areas of walls, corners, window frames, suspended floors, overhangs, and roofs. Include photos that indicate any thermal bridges. Save photos to Section of the Phius On-Site QA folder. 1.0.3.1 Above-Grade Walls 1.0.3.2 Ceiling/Attic 1.0.3.3 Window Installed 1.0.3.4 Framed Floor over unconditioned spaces Notes 1.0.4 General Exterior: Take exterior photos of each elevation and significant architectural features including, balconies, overhangs and shading devices. Take photo of the areas surrounding, and adjacent to the building. Include photos that show any nearby structures, natural features or vegetation the care cause shading on the building. Save photos to Section 4 of the Phus On-Site QA folder. 1.0.4.1 Radon system piping (where applicable) 1.0.4.2 Photos of Each Exterior Elevation 1.0.4.3 Overhangs & Shading 1.0.4.4 Surrounding Site and adjacent to obstructions	1.0.2.2	NFRC label on Operable Window(s)		
1.0.2.5 Photo of Opaque Door(s) 1.0.2.6 Photo of exterior access doors (roof access, attic access, etc.) 1.0.3 Infrared Photos: Perform a thorough IR scan of the building thermal envelope. Provide representative photos, including, but not limited to: areas of walls, corners, window frames, suspended floors, overhangs, and roofs. Include photos that indicate any thermal bridges. Save photos to Section of the Phius On-Site QA folder. 1.0.3.1 Above-Grade Walls 1.0.3.2 Ceiling/Attic 1.0.3.3 Window Installed 1.0.3.4 Framed Floor over unconditioned spaces Notes 1.0.4 General Exterior: Take exterior photos of each elevation and significant architectural features including, balconies, overhangs and shading devices. Take photo of the areas surrounding, and adjacent to the building. Include photos that show any nearby structures, natural features or vegetation the can cause shading on the building. Save photos to Section 4 of the Phus On-Site QA folder. 1.0.4.1 Radon system piping (where applicable) 1.0.4.2 Photos of Each Exterior Elevation 1.0.4.3 Overhangs & Shading 1.0.4.4 Surrounding Site and adjacent obstructions	1.0.2.3	NFRC label on Skylight (s)		
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1.0.4.2 Photos of Each Exterior Elevation 1.0.4.3 Overhangs & Shading 1.0.4.4 Surrounding Site and adjacent obstructions		of the areas surrounding, and adjacent to the building. Include photos that show any nearby structures		
1.0.4.3 Overhangs & Shading 1.0.4.4 Surrounding Site and adjacent obstructions	1.0.4.1	Radon system piping (where applicable)		
1.0.4.4 Surrounding Site and adjacent obstructions	1.0.4.2	Photos of Each Exterior Elevation		
	1.0.4.3	Overhangs & Shading		
	1.0.4.4	Surrounding Site and adjacent obstructions		
Notes:	Notes:			



1.1	Field Verification	za wa ni lot a di		
1.1.1	Rater/Verifier is responsible for verifying the tasks below have been Architectural Features, Insulation, and Thermal Bridging	Rater/Verifier	N/A	PROG
1.1.1.1	Drawings Check: Describe any significant variations in construction from the construction drawings and specifications (insulation, window sizes, window performance, fixed shading etc.).	Confirmed		REQ.
Notes:				
1.1.1.2	Framing Inspection: Framing matches architectural plans (depth & spacing, e.g., 2x6 16" O.C.). If not, please describe in notes section below.			ALL
Notes:				
1.1.1.3	Operable Shading: If operable shading has been installed, describe operable shading.			ALL
Notes:				
1.1.1.4	Insulation R-Value: All insulation R-values match those listed on architectural plans. If not, please describe in notes section below.			ALL
Notes:				
1.1.1.5	Insulation Quality Check: All insulated assemblies have achieved a RESNET Grade I cavity insulation level, or alternatively Grade II with continuous insulation.			ENERGY STAR
Notes:				
1.1.1.6	Fastener Quality Check: In the box below, describe the material of fastener used to install exterior insulation (aluminum, mild steel, stainless steel, plastic, etc.).			Phius
Notes:				
1.1.1.7	Thermal Bridging/mitigation strategy identification: In the box below, Rater/Verifier has noted any thermal bridges in the assembly observed on the project and strategies used for mitigation. Describe and provide photo documentation where such details are missed.			Phius
Notes:	Describe any thermal bridges present and/or mitigation strategies:			
1.1.2	Whole Building Airtightness Testing:	Rater/Verifier Confirmed	N/A	PROG REQ.
1.1.2.1	Mid-Construction Airtightness Testing: This is an optional, but recommended test. (This test is required for Phius Prescriptive Path projects.)			
1.1.2.2	Final Airtightness Testing: Conduct multi-point blower door tests for depressurization and pressurization, following building set-up per Phius Certification Guidebook & ANSI/RESNET/ICC Std 380-2022. Enter data into Building Envelope tab of the QA Workbook and upload testing report into Section 4 of the Phius On-Site QA folder.			Phius
Notes:				



1.1.3	Compartmentalization Airtightness Testing:	Verifier Confirmed	N/A	PROG REQ.
1.1.3.1	Requirements: Required for Townhouse & multifamily dwelling units.			
1.1.3.2	Compartmentalization Airtightness Testing: Conduct compartmentalization airtightness testing of individual dwelling units in accordance with Phius Guidebook and ANSI/RESNET/ICC Std 380-2022. The maximum air leakage shall be 0.3 CFM50/sq ft** of dwelling unit Envelope Surface Area. Enter results into the Building Envelope tab of the QA Workbook. *** Note 0.3 CFM50/sq ft shall be the target rate until such time EPA or DOE programs require a tighter value.			Phius
Notes:				



Project	#	(August 2024) Project Name City			State
Froject	. π			<u>`</u>	state
		2 – Ventilation			
2.0		Site Photos Scan QR Code to view examples of site photos, Don'ts and Do's:			
2.0.1	Site Phot	os of Ventilation Systems:	Rater/Ve Confirm		N/A
		each installed ventilation system and auxiliary ventilation system defrost equipment (el	ectric, hot water loop f	rom DHW t	ank, and
2.0.1.1	ground loop) a	nd nameplate (manufacturer, model number). Include photos that show context. Save	photos to documentat	ion folder.	
2.0.1.1		entilation Equipment			
Notes:				'	
2.1		Field Verification			
		Rater/Verifier is responsible for verifying the tasks below have l	been completed: Rater/Verifier		PROG
2.1.1	General:		Confirmed	N/A	REQ.
2.1.1.1	≥ 4' above g	air inlets and outlets for projects in Climate Zones 4-8 are installed grade and/or roof deck.			
2.1.1.2	common sp	air comes directly from outdoors, not from adjacent dwelling units, paces, garages, crawlspaces, or attics.			
2.1.1.3	distribution	·			Phius
2.1.1.4	superinten				
2.1.1.5	fiberglass d retarder is	or retarder is installed over all air-permeable insulation (such as uct wrap) on ventilation ducts connected to outside. Vapor continuous and sealed to building air barrier and ventilation unit as, breaks or holes.			
2.1.2	Kitchens		Rater/Verifier Confirmed	N/A	PROG REQ.
2.1.2.1		chaust register installed ≥ 6' from the nearest edge of the cooktop. -string distance")			-
		which type of filter was installed:			
2.1.2.2	2.1.2.2.1	MERV 3+ filter for trapping grease at ERV/HRV exhaust register.			
	2.1.2.2.2	Washable mesh filter for trapping grease in range hood.			
	Installed ra	ange hood is one of the following (select one):			Phius
2.1.2.3	2.1.2.3.1	Recirculating hood over range.			
	2.1.2.3.2	Range hood exhausted directly to outside.			
	Measured	kitchen direct exhaust rates meets one of the following (select o	one or more):		
2.1.2.4	2.1.2.4.1	Meets Energy Star, IAP, and ZERH requirements for minimum kitchen exhaust airflow.			
Notes:					



2.1.3	Bedroom	S:	Rater/Verifier Confirmed	N/A	PROG REQ.
	Provision n	nade to supply outdoor air to all bedrooms in dwelling units an	d comply with eith	er	
	2.1.3.1.1 or	2.1.3.1.2. If complying with 2.1.3.1.1, skip to 2.1.3.2.		I	
	2.1.3.1.1	Dedicated outdoor air supply ventilation ductwork installed to all bedrooms.			
2.1.3.1	2.1.3.1.2	Outdoor air supply ventilation ductwork integrated with heating/cooling ductwork and is connected directly to the return plenum of the air handler (also complies with 2.1.3.1.2.1 and 2.1.3.1.2.2).			
	2.1.3.1.2	ERV/HRV remains in balance under all fan speeds of the heating/cooling air handler.			Phius
	2.1.3.1.	Air handler fan designed to run continuously by default. Air handler power (Watts) added to ventilation power (Watts), in calculation of W/cfm, and meets DOE ZERH efficacy requirements.			
2.1.3.2	difference o	are pressure balanced to achieve a Rater/Verifier measured pressur of +/- 1 Pa with respect to the main body of the dwelling unit when a pors are closed and only the ventilation system is operating at desig	ill		
Notes:					
2.1.4	Bathroor	ns:	Rater/Verifier Confirmed	N/A	PROG REQ.
		pathroom exhaust rates meets one of the following (select one):		Energy
2.1.4.1	2.1.4.1.1	≥20cfm continuous.			Star
	2.1.4.1.2	≥50 cfm intermittent.	Rater/Verifier		PROG
2.1.5	Ventilati	on Auxiliary Systems:	Confirmed	N/A	REQ.
2.1.5.1		enter type of ERV/HRV defrost - electric, hot water loop from DHW d loop into the Ventilation tab of the Workbook.			Phius
2.1.5.2	Project tean	n has demonstrated the defrost control logic is set up properly.			
2.1.6		on System Airflow Testing: Rater/Veri		N/A	PROG REQ.
2.1.6.1	ventilation s of QA Work	entilation System Airflow Testing: Conduct system airflow testing. Enter data into Ventilation tab book, and provide testing report in Section 4 of the te QA folder, if available.			Phius
2.1.6.2	Auxiliary Ex Conduct ver Ventilation to	chaust Ventilation System Airflow Testing: Intilation system airflow testing, enter data into Itab of QA Workbook, and provide testing report in Itabicity it available.			
Notes:					



Project	(August 2024) # Project Name City			State
·	3 – Heating & Cooling			
3.0	Site Photos Scan QR Code to view examples of site photos, Don'ts and Do's:			
3.0.1	Site Photos of Heating & Cooling Systems:	Rater/Ve Confir		N/A
	Take photos of each installed heating & cooling system and nameplate (manufacturer, model number). nameplate. Save photos to Section 4 of the Phius On-Site QA folder.	Include photos that s	how equipi	ment and
3.0.1.1	Heating & Cooling System			
Notes				
3.1	Field Verification Rater/Verifier is responsible for verifying the tasks below have b	aan camplatad		
3.1.1	Combustion Equipment:	Rater/Verifier	N/A	PROG
3.1.1.1	If combustion equipment for space heating is included in the project, provide a dedicated branch circuit, in compliance with DOE ZERH v2 NPR Exhibit 1, Item 11. Branch circuit shall be labeled "For Future Heat Pump Space Conditioning."	Confirmed		REQ.
3.1.1.2	Combustion furnaces, boilers and/or water heaters located within the buildings' pressure boundary are sealed combustion, direct-vent appliances.			Phius
3.1.1.3 3.1.1.4	Natural draft fireplaces are not installed. Installed woodstoves have a combustion air inlet connected to the firebox.			 -
3.1.1.4	Controls:	Rater/Verifier	N/A	PROG
3.1.2.1	Heating/Cooling System Fan - air flow is produced when thermostat is set to "fan on", Heated air flow is produced when thermostat is set to "Heat", Cooling air flow is produced when thermostat is set to "Cool".	Confirmed	IV/A	REQ. Phius
3.1.3	Condensation Management:	Rater/Verifier Confirmed	N/A	PROG REQ.
3.1.3.1	Ensure condensate drain provided for cooling system evaporator coil or a condensate drain is located within 3 feet.	commune		
3.1.3.2	Corrosion-resistant drain pan, properly sloped to drainage system is included with each HVAC component that produces condensate.			- Phius
3.1.4	Distribution System Layout:	Rater/Verifier Confirmed	N/A	PROG REQ.
3.1.4.1	Duct installation reasonably matches design layout.	Rater/Verifier		Phius PROG
3.1.5	Heating/Cooling Distribution System Testing:	Confirmed	N/A	REQ.
3.1.5.1	Ducted Heating/Cooling Distribution System Testing: Conduct leakage testing and balancing of ducted heating/cooling distribution system, enter data into Heat & Cool tab of QA Workbook. Provide TAB report in documentation folder.			Phius
3.1.5.2	Hydronic Heating/Cooling Distribution System Testing: Collect documentation of testing of hydronic heating/cooling distribution system, enter data into Heat & Cool tab of QA Workbook, and provide report in documentation folder.			Fillus
Notes:				



Project	:#	Project NameCity		s	tate
		4 – Domestic Hot Water			
4.0		Site Photos Scan QR Code to view examples of site photos, Don'ts and Do's:			
4.0.1	Site Pho	otos of Domestic Hot Water System:	Rater/Ver Confirm		N/A
		of each installed domestic hot water system and nameplate (manufacturer, model number). li cumentation folder.			ext. Save
4.0.1.1		Hot Water Heater			
4.0.1.2	Recircula	tion Pump and Controls (if applicable)			
Notes:					
4.1		Field Verification Rater/Verifier is responsible for verifying the tasks below have been			
4.1.1	Domest	ic Hot Water System:	Rater/Verifier Confirmed	N/A	PROG REQ.
4.1.1.1	Pipe insta difference	llation and insulation reasonably matches design layout. Describe any es below:			Phius
Notes:					
4.1.1.2		nand recirculation system for DHW was installed per DOE ZERH hot ciency requirements. Describe any differences below:			ZERH
Notes:					
		stion water heating and water heater capacity is less than or equal to ollowing are met:	o 300,000 Btu/h	r (88	
4.1.1.3	4.1.1.3.1	Complies with DOE ZERH Single Family Homes National Program Requirements or DOE ZERH Multifamily National Program Requirements, Sections 10.1 and 10.2 in the Rater Field Checklist.			Phius
	If combus		0 Btu/hr (88 kW) the	Phius
4.1.1.4	4.1.1.4.1	Provided a branch circuit sized for an electric appliance, equipment or end use with an equivalent capacity that terminates within 6 feet of the appliance or equipment.			
Notes:					



Та	5 – Appliances & Electrical Loa Site Photos Scan QR Code to view examples of site photos, Don'ts and Do's:	ads		
5.0.1 S i	0100111000			
Та				
	Site Photos of Appliances	Rater/Ve	_	N/A
do	ake photos of each installed appliance and nameplate (manufacturer, model number). Include photos t			to
	documentation folder. Refrigerator/Freezer/Wine Cooler			
	Dishwasher			
	Clothes Washer			
5.0.1.4 CI	Clothes Dryer			
5.0.1.5 Ra	Range/Oven Combination			
5.0.1.6 W	Wall Oven			
5.0.1.7 Co	Cooktop			
	Exhaust Range Hood			
5.0.1.9 M	Miscellaneous (e.g., Dehumidifier)			
Notes:				
	Field Verification			
5.1	Rater/Verifier is responsible for verifying the tasks below have be	en completed:		
5.1.1 C	Combustion Appliances & Equipment:	Rater/Verifier Confirmed	N/A	PROG REQ.
5.1.1.1 br of er	Combustion Clothes Dyer: If combustion clothes drying. A dedicated 240-volt branch circuit with a minimum capacity of 30 amps shall terminate within 6 feet of natural gas clothes dryers and shall be accessible with no obstructions. Both ends of the branch circuit shall be labeled with the words "For Future Electric Clothes Drying" and be electrically isolated.			
5.1.1.2 Co br ov sh is	Combustion Cooking: If combustion cooking. A dedicated 240-Volt, 40A branch circuit shall terminate within 6 feet of natural gas ranges, cooktops and ovens and be accessible with no obstructions. Both ends of the branch circuit shall be labeled with the words "For Future Electric Range" and be electrically solated.			Phius
w ar	Other Combustion Equipment: All combustion equipment shall be provided with a branch circuit sized for an electric appliance, equipment or end use with an equivalent capacity that terminates within 6 feet of the appliance or equipment.			
Notes:				
5.1.2 A	All Other Appliances and Electrical Equipment	Rater/Verifier Confirmed	N/A	PROG REQ.
	Appliances: Record Manufacturer and Model Number in the Appliances & Electrical tab of the QA Workbook.			DOE ZERH
5.1.2.2 th	Direct Exhaust Range Hood: Measure exhaust cfm and record this value into the Ventilation tab of the QA Workbook.			- Phius
5173	Electrical: Record any other significant energy use loads in the Appliances & Electrical Loads tab of the QA Workbook.			111103
Notes:				



5.1.3	Lighting	Rater/Verifier Confirmed	N/A	PROG REQ.
5.1.3.1	Lighting: Installed lighting matches lighting plan - describe variations, if applicable			Phius
Notes:				



Project	# Project Name City		S	tate
	6 – Renewables & Electrifica	tion		
6.0	Site Photos Scan QR Code to view examples of site photos, Don'ts and Do's	s:		
6.0.1	Site Photos of Renewables & Electrification:	Rater/Vei Confirm		N/A
	Take photos that document the renewables and electrification. Include photos that show context.	Save photos to docum	entation fo	lder.
6.0.1.1	Solar PV Installed (take photos of inverters and panels).			
6.0.1.2	Electric Vehicle Supply Equipment (EVSE).			
Notes:				
Notes:	Field Verification Rater/Verifier is responsible for verifying the tasks below have	been completed:		
		been completed: Rater/Verifier Confirmed	N/A	PROG REQ.
6.1	Rater/Verifier is responsible for verifying the tasks below have	Rater/Verifier	N/A	REQ.
6.1.1	Rater/Verifier is responsible for verifying the tasks below have Renewable Energy Systems: Solar Thermal System: Ensure installed solar PV system corresponds with shop drawings or purchase order, and document in the Renewables &	Rater/Verifier	N/A	



Project	# Project Name_	City		St	ate
	6 – Re	enewables & Electrifica	tion		
6.0	Scan QR	Site Photos Code to view examples of site photos, Don'ts and Do's	s:		
6.0.1	Site Photos of Renewa	bles & Electrification:	Rater/Ver Confirm		N/A
	Take photos that document the rene	wables and electrification. Include photos that show context.	Save photos to docum	entation fo	lder.
6.0.1.1	Solar PV Installed (take pho	otos of inverters and panels).			
6.0.1.2	Electric Vehicle Supply Equ	ipment (EVSE).			
Notes:					
6.1		Field Verification			
	Rater/Ve	rifier is responsible for verifying the tasks below have	been completed:		
6.1.1	Rater/Ve		Rater/Verifier Confirmed	N/A	PROG REQ.
6.1.1	Renewable Energy Sys Solar Thermal System: Ens	ure installed solar PV system corresponds with order, and document in the Renewables &	Rater/Verifier	N/A	REQ.
	Renewable Energy System: Ensisted Solar Thermal System: Ensisted Grawings or purchase of Electrification tab of the QA Value Solar Photovoltaic System	ure installed solar PV system corresponds with order, and document in the Renewables & Vorkbook. Ensure installed solar PV system corresponds ase order, and document in the Renewables &	Rater/Verifier	N/A	
6.1.1.1	Renewable Energy System: Ensisted Solar Thermal System: Ensisted Grawings or purchase of Electrification tab of the QA National Solar Photovoltaic System with shop drawings or purch	ure installed solar PV system corresponds with order, and document in the Renewables & Vorkbook. Ensure installed solar PV system corresponds ase order, and document in the Renewables &	Rater/Verifier	N/A	REQ.
6.1.1.1	Renewable Energy System: Ensisted Solar Thermal System: Ensisted Grawings or purchase of Electrification tab of the QA National Solar Photovoltaic System with shop drawings or purch	ure installed solar PV system corresponds with order, and document in the Renewables & Vorkbook. Ensure installed solar PV system corresponds ase order, and document in the Renewables &	Rater/Verifier	N/A	REQ.
6.1.1.1 6.1.1.2 Notes:	Renewable Energy System: Ensisted Solar Thermal System: Ensisted Grawings or purchase of Electrification tab of the QA National Solar Photovoltaic System with shop drawings or purch	ure installed solar PV system corresponds with order, and document in the Renewables & Vorkbook. Ensure installed solar PV system corresponds ase order, and document in the Renewables &	Rater/Verifier	N/A	REQ.
6.1.1.1 6.1.1.2 Notes:	Renewable Energy System: Ensisted System: Ensisted Processing of Solar Thermal System: Ensisted Processing of Solar Photovoltaic System With Shop drawings or purch Electrification tab of the QA Werifier Name (Printed):	ure installed solar PV system corresponds with order, and document in the Renewables & Vorkbook. Ensure installed solar PV system corresponds ase order, and document in the Renewables &	Rater/Verifier	N/A	REQ.