

Change Notice Summary for the 2017-2019 Implementation Manual

The following changes are effective Oct. 1, 2019

EFFECTIVE DATE (POSTED DATE)	LOCATION	DESCRIPTION	RATIONALE
General			
October 2019	0	Effective October 1st, 2019, BPA EE will no longer maintain a fax service for customer submissions. All references to fax submissions will be removed.	This submission pathway is discontinued due to lack of usage.
Introduction			
October 2019	1.1	BPA will be clarifying that unless otherwise noted or written preapproval has been provided by a COTR all equipment installed must be new to qualify for payment using a UES measure.	This provides consistency and clarity in the way BPA treats used equipment in our energy efficiency program.
BPA Funding			
October 2019	2.2	Effective October 1st, 2019, customers may no longer submit non-reportable savings in the same submission as reportable savings. Customer's may continue to submit non-reportable savings to BPA in a separate submission.	This change will increase efficiencies in BPA invoice review and oversight activities.
General Requirements			
October 2019	3.1	BPA will be clarifying that unless otherwise noted utility created forms can be substituted for forms provided by BPA to fulfill the stated documentation requirements. Utility created forms must contain at a minimum all fields found in the BPA provided form in order to qualify as acceptable documentation.	We have addressed substitute forms inconsistently across sectors and programs. This will create consistency.
Custom Projects			
October 2019	4.0	4.0 Custom Projects - 4.3.2 Custom Project General Requirements. The requirements for Nonresidential Lighting Projects will be modified as follows: 'Any nonresidential lighting project (See 7.3 Nonresidential Lighting) may be submitted as a custom project. Lighting projects submitted as custom projects must use a comprehensive M&V plan per the BPA M&V Protocol Selection Guide and are not eligible to use a BPA engineering calculation with verification plan.'	Requirement language added.

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October 2019	4.1	<p>Payment rates for select Commercial sector custom projects will change as follows:</p> <ul style="list-style-type: none"> • Nonresidential Lighting – Payment rate (\$/kWh) – from \$0.18 to \$0.13 • Retrofit Construction (excluding Nonresidential Lighting) - Measure Life 2-3 years – Commercial Sector HVAC End Use – from \$0.05 to \$0.06 • Retrofit Construction (excluding Nonresidential Lighting) - Measure Life 4-19 years – Commercial Sector HVAC End Use – Payment rate (\$/kWh) – from \$0.20 to \$0.23 • Retrofit Construction (excluding Nonresidential Lighting) - Measure Life 20+ years – Commercial Sector HVAC End Use – Payment rate (\$/kWh) – from \$0.35 to \$0.40 • New Construction and Major Renovation (excluding Nonresidential Lighting) - Measure Life 2-3 years – Commercial Sector HVAC End Use – \$0.05 to \$0.06 • New Construction and Major Renovation (excluding Nonresidential Lighting) - Measure Life 4-19 years– Commercial Sector HVAC End Use – Payment rate (\$/kWh) – from \$0.27 to \$0.31 • New Construction and Major Renovation (excluding Nonresidential Lighting) - Measure Life 20+ years – Commercial Sector HVAC End Use – Payment rate (\$/kWh) – from \$0.35 to \$0.40 <p>Payment rates for all other Commercial sector custom projects will remain the same.</p>	<p>Increased payment for Commercial HVAC custom projects by 15%; decreased payment for Nonresidential lighting custom projects to ensure consistency with Lighting Calculator 5.0 series.</p>
October 2019	4.3.1	<p>Custom Projects Process Option Overview and Enrollment: Option 2: BPA will replace the language "Project implementation assistance is not available unless provided by third-party implementation contractors as part of a program (e.g., Cascade Energy through Energy Smart Industrial, or the Northwest Trade Ally Network)." with "Project implementation assistance is not available unless provided by third-party implementation contractors as part of a program that offers that service (e.g., Cascade Energy through Energy Smart Industrial or the Trade Ally Network NW)."</p>	<p>Updating language for clarity and to reflect the Third Party program name change from Northwest Trade Ally Network to Trade Ally Network NW.</p>
Custom Programs			
October 2019	5.0	<p>Custom programs will be placed on hold for the Rate Period 2020/2021. During this time new submissions will not be accepted, however EE staff will continue to work with customers on existing custom programs.</p>	<p>EE will use this time to work with customers and internal staff to evaluate whether to continue offering custom programs in the future.</p>
Agricultural Sector			
October 2019	6.3	<p>The payment for Variable Frequency Drives in Agricultural Turbine Pump Applications, Existing (BPA-Qualified) will increase from \$60/HP to \$80/HP.</p>	<p>This change creates consistency with the new VFD measures added in October 2018.</p>

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October 2019	6.3.1	Irrigation System Upgrades. The following measures will expire: New drop tube for low-pressure pivot sprinklers (minimum three feet length); New, gooseneck elbow for new drop tubes (to convert existing sprinkler equipment mounted on top of the pivot to low- pressure sprinkler package, LEPA or LESA); New multitrajectory sprays that replace impact sprinklers; New multitrajectory sprays that replace low-pressure sprinklers; New multiple configuration nozzles for low-pressure pivot sprinklers; Replace worn nozzle with new flow-controlling type nozzle for impact sprinklers; New nozzle for impact sprinkler, replacing existing worn nozzle of same flow rate or less; New, low-pressure regulators.	Deactivated by the RTF. At the March 28, 2018 RTF meeting, the RTF approved significant updates to the Irrigation Hardware UES measure savings methodology, measure applications, savings, and costs. These changes, outlined in an RTF memo dated April 25, 2018.
October 2019	6.3.1	Irrigation System Upgrades. Savings and payment will decrease for the following measures: New, rotating type sprinklers that replace impact sprinklers; New rotating-type sprinklers that replace low-pressure models; Replace leaking impact sprinkler with rebuilt or new impact sprinkler.	At the March 28, 2018 RTF meeting, the RTF approved significant updates to the Irrigation Hardware UES measure savings methodology, measure applications, savings, and costs. These changes, outlined in an RTF memo dated April 25, 2018, affected savings for most irrigation hardware measures.
October 2019	6.3.1	Irrigation System Upgrades. Savings will go up and payment will be increased for the following measures: Replace leaking center pivot base boot gasket with new gasket; Rebuild or replace leaking or malfunctioning leveler with new or rebuilt wheel line leveler; Pipe repair of leaking hand lines, wheel lines and portable mainline.	At the March 28, 2018 RTF meeting, the RTF approved significant updates to the Irrigation Hardware UES measure savings methodology, measure applications, savings, and costs. These changes, outlined in an RTF memo dated April 25, 2018, affected savings for most irrigation hardware measures.
October 2019	6.3.1	Irrigation System Upgrades. Savings will go down for New nozzles for center pivot and lateral moves.	At the March 28, 2018 RTF meeting, the RTF approved significant updates to the Irrigation Hardware UES measure savings methodology, measure applications, savings, and costs. These changes, outlined in an RTF memo dated April 25, 2018, affected savings for most irrigation hardware measures.
October 2019	6.3.1	Irrigation System Upgrades. The payment for Replacing a leaking pipe section and riser cap gaskets or a portable mainline gasket will increase from \$2.75 to \$4.00.	The savings for this measure justify a higher payment.
October 2019	6.3.1	Savings will go down and payment will be increased for Drain/Drain Gasket.	Savings justify a higher incentive than was previously offered. At the March 28, 2018 RTF meeting, the RTF approved significant updates to the Irrigation Hardware UES measure savings methodology, measure applications, savings, and costs. These changes, outlined in an RTF memo dated April 25, 2018, affected savings for most irrigation hardware measures.
October 2019	6.3.4	Low Energy Precision Agriculture (LEPA) (BPA-Qualified) will expire.	This no-savings measure was offered to support data collection for the Regional Technical Forum's research. LESA/LEPA were given planning status with deemed savings and are offered as new measures, so this PIF measure is no longer required.

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October 2019	6.3.5	Low Elevation Sprinkler Application (LESA) (BPA-Qualified) will expire.	This no-savings measure was offered to support data collection for the Regional Technical Forum's research. This measure was given planning status with deemed savings, so this measure is no longer required.
October 2019	6.5	The payment for Transformer De-Energization will increase from \$0.025 to \$0.03 per kWh of busbar savings.	The current payment rate creates issues within the IS2.0 reporting system that are very difficult to fix. Increasing the payment eliminates the need for software changes.
Commercial Sector			
October 2019	7.3	Nonresidential Lighting. Requirements related to Custom lighting projects will be updated to reflect custom project requirements.	Moving this information to the Custom Project section will better reflect Custom Lighting project requirements.
October 2019	7.3	Nonresidential Lighting. Adding new documentation for new construction projects. Nonresidential lighting new construction projects will now require submittal of an invoice.	Requiring a project invoice will help ensure consistency in documentation requirements across nonresidential lighting projects.
October 2019	7.4.1	Advanced Rooftop Unit Control (ARC) (BPA-Qualified) This BPAQ measure is expiring and will be replaced with an RTF-approved measure.	The measure was approved by the RTF; therefore the BPA-Qualified measure is replaced with the RTF measure.
October 2019	7.4.1	Advanced Rooftop Unit Control (ARC). BPA will adopt this RTF approved measure. There will be a payment for ARC Retrofit-Lite, and a payment for ARC Retrofit-Full. BPA will continue to maintain a QPL for this measure.	New Measure
October 2019	7.4.2	Ductless Heat Pump (BPA-Qualified) This measure will be renamed Ductless Heat Pump Retrofit (BPA-Qualified).	This name change will clarify the measure application.
October 2019	7.4.2	Ductless Heat Pump (BPA-Qualified). BPA will update the efficiency specification based on the 75th percentile of performance for ductless heat pumps per the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) database as of January 2019. Energy savings have increased. The DHP outdoor condenser must be rated with a minimum 11.0 HSPF.	Updated efficiency specification and savings methodology as part of a periodic BPA- Qualified measure update.
October 2019	7.4.2	Ductless Heat Pump (BPA-Qualified). The following application will be removed: "Even if the space was previously conditioned by an air source, ground source, or ductless heat pump that is no longer working, and the space is conditioned by backup zonal or forced-air electric resistance heat, the application is still eligible for a DHP." This application is now eligible under the new DHP Upgrade (BPA-Qualified) measure.	Updating the measure to reflect which measure should be used for this specific application.
October 2019	7.4.2	Ductless Heat Pump (BPA-Qualified). The payment will increase from \$800 per ton to \$1000 per ton.	Updated payment to reflect updated measure savings.

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October 2019	7.4.3	Heat Pump Conversion (BPA-Qualified). This measure will be renamed Heat Pump Retrofit (BPA-Qualified)	This name change will clarify the measure application.
October 2019	7.4.3	Heat Pump Conversion (BPA-Qualified). BPA will update the efficiency requirements based on the 75th percentile of performance for air source heat pumps per the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) database as of January 2019. Due to slightly higher efficiency requirements, energy savings will increase.	Updated efficiency specification and savings methodology as part of a periodic BPA- Qualified measure update.
October 2019	7.4.3	Heat Pump Conversion (BPA-Qualified). BPA will remove equipment size cap of 20 tons or less.	Removed requirement to streamline implementation.
October 2019	7.4.3	Heat Pump Conversion (BPA-Qualified). The payment will increase from \$500 per ton to \$1000 per ton.	Updated payment to reflect updated measure savings.
October 2019	7.4.4	Heat Pump Upgrade (BPA-Qualified). BPA will update the efficiency requirements based on the 75th percentile of performance for air source heat pumps per the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) database as of January 2019. The energy savings will decrease.	Updated efficiency specification and savings methodology as part of a periodic BPA- Qualified measure update.
October 2019	7.4.4	Heat Pump Upgrade (BPA-Qualified). BPA will remove equipment size cap of 20 tons or less.	Removed requirement to streamline implementation.
October 2019	7.4.4	Heat Pump Upgrade (BPA-Qualified). Where previously there were two different categories of payments, BPA will now pay a straight \$150.00 per ton, which is a small reduction in payment.	Simplified payment structure; updated payment to reflect updated measure savings.
October 2019	7.4.5	Connected Thermostat (BPA-Qualified). This BPAQ measure is expiring and will be replaced with an RTF-approved measure.	The measure was approved by the RTF; therefore the BPA-Qualified measure is replaced with the RTF measure.
October 2019	7.4.5	Connected Thermostat. BPA will be adopting this RTF approved measure. A PIF will be required. The measure includes payments for: 1) the initial install and 2) verification of thermostat programming. BPA will continue to maintain a QPL for this measure.	New measure
October 2019	7.4.6	Variable Refrigerant Flow System (BPA-Qualified). BPA will update the efficiency requirements based on the 75th percentile of performance for VRF per the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) database as of January 2019.	Updated efficiency specification and savings methodology as part of a periodic BPA- Qualified measure update.

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October 2019	7.4.6	Variable Refrigerant Flow System (BPA-Qualified). BPA will remove the 100,000 square feet restriction on building size.	Remove requirement to streamline implementation.
October 2019	7.4.6	Variable Refrigerant Flow System (BPA-Qualified). The energy savings will increase. The payment will increase from \$800.00 per ton to \$1000 per ton.	Updated the savings methodology as part of a periodic BPA Qualified measure update.
October 2019	7.4.7	Variable Frequency Drive on Air Handling Unit Fan. BPA will remove the precondition requirement related to minimum building operating hours, and the postcondition requirement for the VFD to trend historical data.	Remove requirements to streamline implementation and promote uptake.
October 2019	7.4.	Ductless Heat Pump Upgrade (BPA-Qualified). This new measure is for the following application: 1) replaces an existing DHP with a more efficient DHP (e.g., replacing a code minimum DHP) or 2) is an efficient DHP installed as part of a building addition project, new construction project, or major renovation project. The DHP outdoor condenser must be rated with a minimum 11.0 HSPF. The payment will be \$300.00 per ton.	New Measure
October 2019	7.5.1	Commercial Insulation. Payments will increase between 65-77% for insulation to align with EE 2020-21 Implementation Plan.	Increasing payment to promote uptake of weatherization measures.
October 2019	7.5.2	Windows for Commercial Buildings (BPA-Qualified). Payments for windows will increase from \$3-\$6 per square foot to \$9-18 per square foot. This aligns with Residential Sector payment increases for windows.	Increasing payment to promote uptake of weatherization measures.
October 2019	7.6.1	Electric Resistance Water Heater. This RTF measure has expired and will be removed.	The RTF sunset this measure in 2018.
October 2019	7.6.2	Heat Pump Water Heater. This measure will expire. Commercial applications will be available under 10.5.3 Unitary Heat Pump Water Heater.	This measure will not be offered in the Commercial Section but will be available for Commercial applications under 10.5.3.
October 2019	7.7.2	Floating Head Pressure Control on Single Compressor Systems. BPA will retire this measure due to very low uptake and anticipated 2019 RTF sunset date.	BPA will retire this measure due to very low uptake.
October 2019	7.7.3	Compressor Head Cooling Fan - Shaded Pole to Electronically Commutated Motor (ECM). BPA will retire this measure due to very low uptake and anticipated 2019 RTF sunset date.	BPA will retire this measure due to very low uptake.
October 2019	7.7.4	Walk-In or Display Case Evaporator Fan Motor – Shaded Pole to Electronically Commutated Motor (ECM). This measure does not apply to motors with fans less than 10-inches in diameter on walk-in coolers and freezers.	The Requirements and Specifications will be updated for clarity.

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October 2019	7.7.5	Walk-In Evaporator ECM Fan Speed Control - Constant to Variable. BPA will retire this measure due to very low uptake and anticipated 2019 RTF sunset date.	BPA will retire this measure due to very low uptake.
October 2019	7.7.6	Door Gasket Replacement for Walk-In and Reach-In Coolers and Freezers. BPA will retire this measure due to very low uptake and anticipated 2019 RTF sunset date.	BPA will retire this measure due to very low uptake.
October 2019	7.8.1	Demand Controlled Kitchen Ventilation (BPA-Qualified). This measure will be available for Commercial, Industrial and Agricultural sectors only.	The Requirements and Specifications will be updated for clarity and to reflect eligible measure application.
October 2019	7.8.2	Electric Commercial Steam Cooker. The measure will be aligned with the 2018 RTF measure update, which reduces the savings for this measure.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.2	Electric Commercial Steam Cookers. The measure will be aligned with the 2018 RTF measure update, which updates the ENERGY STAR specification from ENERGY STAR 1.0 to ENERGY STAR 1.2.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.2	Electric Commercial Steam Cooker. Given that some measures now show to have negative incremental cost, only the 6 pan cooker measure option will be offered by BPA moving forward. The 3, 4, 5, and 10 pan cooker measures will expire. The payment for a 6 pan cooker will increase to \$500 per pan, which is approximately \$0.025/kWh and covers half the incremental equipment cost.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.3	Hot Food Holding Cabinets. The measure will be aligned with the 2018 RTF measure update, which increases the savings for this measure and adds a new measure for a double size cabinet.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.3	Hot Food Holding Cabinets. The measure will be aligned with the 2018 RTF measure update, which updates the ENERGY STAR specification from ENERGY STAR 1.2 to ENERGY STAR 2.0.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.3	Hot Food Holding Cabinets. Payments will be updated to reflect the increase in savings. Half size: Increase to \$250/cabinet. Full size: Increase to \$500/cabinet. Add new payment for Double size: \$1000/cabinet.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.4	Electric Combination Ovens. The measure will be aligned with the 2018 RTF measure update, which reduces the savings for this measure. Note that the payment will not change and is equivalent to approximately \$0.09/kWh covering between 50-90% of incremental equipment cost.	Updated to accurately reflect 2018 RTF measure update.

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October 2019	7.8.4	Electric Combination Ovens. The measure will be aligned with the 2018 RTF measure update, which updates the ENERGY STAR specification from ENERGY STAR 2.0 to ENERGY STAR 2.2.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.5	Electric Convection Ovens. The measure will be aligned with the 2018 RTF measure update, which reduces the savings for this measure.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.5	Electric Convection Ovens. The measure will be aligned with the 2018 RTF measure update, which updates the ENERGY STAR specification from ENERGY STAR 2.0 to ENERGY STAR 2.2.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.5	Electric Convection Ovens. Payments will be updated to reflect differences in savings in oven sizes. Where previously it was \$300 per oven for all ovens, it will be updated as follows. Half oven: \$200/oven. Full oven: \$400/oven.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.6	Commercial Electric Fryers. The measure will be aligned with the 2018 RTF measure update, which reduces the savings for this measure.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.6	Commercial Electric Fryers. The measure will be aligned with the 2018 RTF measure update, which updates the ENERGY STAR specification from ENERGY STAR 2.0 to ENERGY STAR 3.0	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.6	Commercial Electric Fryers. Small size fryers are no longer cost-effective and the measure will be retired. Large vat size fryer payment will be decreased from \$300 per fryer to \$250 per fryer.	Updated to accurately reflect 2018 RTF measure update.
October 2019	7.8.7	Pre-Rinse Spray Wash Valves. The valve is required to be WaterSense qualified or have a minimum spray force of 4.0 ounces-force.	This requirement was previously in the Basis for Saving and is now embedded in the Requirement and Specifications.
October 2019	7.9.2	Smart Power Strips. Savings will decrease to reflect recently updated RTF measure; no change in payment.	Updated to accurately reflect updated RTF-approved measure.
October 2019	7.9.2	Smart Power Strips. The measure language will be updated to reflect the recently updated RTF measure which allows 3 types of load control: load sensing, motion sensing (occupancy), and timer.	Updated to accurately reflect updated RTF-approved measure.
October 2019	7.9.2	Smart Power Strips. The technical requirement that the smart power strip prevent false switching will be removed.	Updated to accurately reflect updated RTF-approved measure.
October 2019	7.9.5	Vehicle Engine Block Heater Controls (BPA-Qualified). This BPAQ measure is expiring and will be replaced with an RTF-approved measure. The measure will be available to all sectors.	The measure was approved by the RTF; therefore the BPA-Qualified measure is replaced with the RTF measure.

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October 2019	7.9.5	Vehicle Engine Block Heater Controls. BPA will be adopting this RTF approved measure. A PIF will not be required. The payment will be \$200.00 per unit.	New Measure
Residential Sector			
October 2019	10.2.2	Residential Lighting. BPA will no longer utilize the Lighting Design Lab (LDL) Qualified Lamps List for determining whether a lamp meets BPA program requirements.	The LDL no longer maintains a list of qualified products.
October 2019	10.2.2	Residential Lighting. Residential Lighting savings and payments will change. Most savings will decrease; a few will increase. Payments will all either decrease or stay the same.	The savings and payments are being updated due to RTF changes.
October 2019	10.2.2	Residential Lighting. Mid and upper lumen bin measures for Decorative and Minibase as well as Globes will expire. The low lumen bin measures for each category will be updated from 250-1049 lumens to 250-2600 lumens.	The measures are being modified in response to RTF changes driven by a lack of mid and upper lumen bin products currently available in the market. BPA will continue to offer these as an option in order to respond market changes.
October 2019	10.3.1	Advanced Power Strips. The current residential measure names will be updated to include the device's control strategy. BPA will no longer utilize the Tier 2 nomenclature for Advanced Power Strips. Devices currently referred to as Tier 2 will be referred to as Infrared Sensing or PC Interaction Sensing. There will also be a clarification made to the Basis for Energy Savings and Requirements.	The need to clarify existing measures from the new Advanced Power Strip measure effective 4/1/19.
October 2019	10.3.1	Advanced Power Strips. Residential Infrared Sensing and PC Interaction Sensing Advanced Power Strip payments will decline to zero and savings will decrease. Utilities may continue to claim the energy savings as self funded or as a measure with zero payment.	The RTF has found that Infrared Sensing and PC Interaction Sensing measures are currently not cost effective. BPA is keeping these measures with a \$0 payment in order to collect information necessary for further evaluation.
October 2019	10.3.2	Advanced Power Strips. The current residential measure names will be updated to include the device's control strategy. BPA will no longer utilize the Tier 2 nomenclature for Advanced Power Strips. Devices currently referred to as Tier 2 will be referred to as Infrared Sensing or PC Interaction Sensing. There will also be a clarification made to the Basis for Energy Savings and Requirements.	The need to clarify existing measures from the new Advanced Power Strip measure effective 4/1/19.
October 2019	10.3.2	Advanced Power Strips. Residential Infrared Sensing and PC Interaction Sensing Advanced Power Strip payments will decline to zero and savings will decrease. Utilities may continue to claim the energy savings as self funded or as a measure with zero payment.	The RTF has found that Infrared Sensing and PC Interaction Sensing measures are currently not cost effective. BPA is keeping these measures with a \$0 payment in order to collect information necessary for further evaluation.

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October 2019	10.4	Appliances – Clothes washers. The minimum Integrated Modified Energy Factor (IMEF) requirement of 2.38 for ENERGY STAR top loading clothes washers will be removed and replaced with a new requirement that top loading washers must be rated CEE Tier 1.	BPA is updating the requirement to align with RTF changes.
October 2019	10.4	Appliances - Clothes washers. For all measures except CEE Advanced Tier Gas Water Heater/ Electric Dryer and Multifamily ENERGY STAR Gas Water Heater/Gas Dryer, savings will increase. Payments will all either increase or stay the same.	The savings and payments are being updated due to RTF changes.
October 2019	10.4	Appliances - Clothes washers. The current Consortium for Energy Efficiency (CEE) Advanced/Tier 3 measure name will be updated to CEE Advanced Tier. IM language will change to reflect the new CEE Tier methodology.	CEE has updated their washer tiers.
October 2019	10.4	Appliances - Clothes Dryers. For all measures except ENERGY STAR, savings will increase. Tier 1 payment will increase. All other payments will stay the same.	The savings and payments are being updated due to RTF changes.
October 2019	10.4	Appliances - Clothes Dryers. BPA's Tier structure will change, impacting the minimum and maximum UCEF values for each tier. ENERGY STAR and BPA Tier 1 measures will have different payments.	BPA will adjust the weightings to produce new tier boundaries due to RTF updates.
October 2019	10.5.1	Showerheads. "Primary" and "secondary" showerhead measures will expire. The "any" measure will remain.	BPA is simplifying these measures to align with the RTF measures.
October 2019	10.5.2	Thermostatic Shut Off Valves. Most savings will decrease; a few will increase. Payments will stay the same.	The savings are being updated due to RTF changes.
October 2019	10.5.3	Unitary Heat Pump Water Heater. BPA will only incentivize one HPWH per home.	BPA's intent has always been to incentivize only one HPWH per home.
October 2019	10.5.3	Unitary Heat Pump Water Heater. Savings for HPWHs will decrease. Payments for Tier 2 and Tier 3 units will increase. All other payments will stay the same.	The savings are being updated due to RTF changes. The payments are being updated to respond to market factors impacting unit cost.
October 2019	10.5.3	Unitary Heat Pump Water Heater. Unitary Heat Pump Water Heater for Manufactured Home measures will expire. Single family Unitary Heat Pump Water Heater measures will be renamed to "Any Residential" to include manufactured homes. New retail Unitary Heat Pump Water Heater measures to differentiate between Oregon and Washington. No changes to Split System Heat Pump Water Heater measure names.	The measure structure is being updated due to RTF changes, and to incorporate new measure identifiers.
October 2019	10.5.4	Split System Heat Pump Water Heater. BPA will only incentivize one HPWH per home.	BPA's intent has always been to incentivize only one HPWH per home.

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October 2019	10.5.4	Split System Heat Pump Water Heater. Savings will decrease, payments will increase.	The savings are being updated due to RTF changes. The payments are being updated to respond to market factors impacting unit cost.
October 2019	10.5.4	Split System Heat Pump Water Heaters. Split System Heat Pump Water Heaters for Manufactured Home measures will expire.	This measure is being updated due to RTF changes.
October 2019	10.7.1.1	Residential Ductless Heat Pumps. Only one ductless heat pump may be claimed per home, regardless of the home's sq. ft. A DHP may be claimed in addition to a PTCS or non-PTCS air source heat pump (ASHP) if installed in a home with more than 4,500 sq. ft. See change notices for sections 10.7.2, 13.2.3.1, and 13.2.3.2.	This clarification is to ensure energy savings are not diluted.
October 2019	10.7.1.1	Residential Ductless Heat Pumps. BPA will no longer require that DHPs be installed by a HVAC company listed on the Northwest Ductless Heat Pump Installer GoingDuctless.com website.	BPA will no longer distinguish between single-head and multi-head installations. The Northwest Ductless Heat Pump installer website promotes single-head applications of DHPs.
October 2019	10.7.1.1	Residential Ductless Heat Pumps. BPA will offer access to the Northeast Energy Efficiency Partnership (NEEP) Cold Climate Specification List for air source heat pumps (including ductless heat pumps) that retain their efficiency at lower operating temperatures. This is an optional resource. Utilities will not be required to utilize models on this list.	Increasing measure support to address changing technology needs.
October 2019	10.7.1.1	Single Interior Head and Single Outdoor Compressor Ductless and Ducted Mini-Split Heat Pump(s). In new single-family homes in Oregon, DHP installations will require documentation that a high efficiency water heater is installed in order to qualify for incentive payment. This new requirement will be captured on the DHP Project Information Form.	Oregon building code requires either a DHP or a high efficiency water heater in new single-family homes. BPA incentives can not be used to meet building code requirements. To qualify for a DHP incentive, utilities must document that a high efficiency water heater (Heat Pump Water Heater or natural gas/propane water heater with UEF 0.85) is installed in the home to satisfy building code. The water heater does not have to be installed at the same time as the DHP, nor does it need to be installed by the same contractor. A high efficiency water heater must simply be installed.
October 2019	10.7.1.1	Single Interior Head and Single Outdoor Compressor Ductless and Ducted Mini-Split Heat Pump(s). This measure will be modified to include systems with multiple indoor heads and/or multiple outdoor compressors. BPA will recognize only one outdoor unit regardless of the number of outdoor or indoor units and require that the outdoor compressor meet a minimum HSPF of 9.0.	Measure simplification to align DHP requirements and payments.
October 2019	10.7.1.1	Single Interior Head and Single Outdoor Compressor Ductless and Ducted Mini-Split Heat Pump(s). Energy savings and incentive payments will decline in existing single-family homes and both new and existing manufactured homes with Electric Forced-Air Furnaces. Incentive payments will be reduced to \$800.	Updated energy savings and incentive payments reflect new energy savings adopted by the Regional Technical Forum.

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October 2019	10.7.1.1	Single Interior Head and Single Outdoor Compressor Ductless and Ducted Mini-Split Heat Pump(s). In new single-family homes, DHP energy savings will decline in Idaho, Montana, Nevada, Wyoming, and California. Incentive payments in these states will decrease to \$500. This measure is not available for new single-family homes in Washington.	Updated savings and payments reflect new energy savings adopted by the Regional Technical Forum. Incentive payment for DHPs in all states except Washington will be flattened to \$500.
October 2019	10.7.1.1	Single Interior Head and Single Outdoor Compressor Ductless and Ducted Mini-Split Heat Pump(s). In new single-family homes, DHP energy savings will increase slightly in Oregon. Incentive payment in Oregon will increase to \$500.	Updated savings and payments reflect new energy savings adopted by the Regional Technical Forum. Incentive payment for DHPs in all states except Washington will be flattened to \$500.
October 2019	10.7.1.2	Residential Ductless Heat Pumps. Only one ductless heat pump may be claimed per home, regardless of the home's sq. ft. A DHP may be claimed in addition to a PTCS or non-PTCS air source heat pump (ASHP) if installed in a home with more than 4,500 sq. ft. See change notices for sections 10.7.2, 13.2.3.1, and 13.2.3.2.	This clarification is to ensure energy savings are not diluted.
October 2019	10.7.1.2	Residential Ductless Heat Pumps. BPA will no longer require that DHPs be installed by a HVAC company listed on the Northwest Ductless Heat Pump Installer GoingDuctless.com website.	BPA will no longer distinguish between single-head and multi-head installations. The Northwest Ductless Heat Pump installer designation promotes single-head applications of DHPs.
October 2019	10.7.1.2	Residential Ductless Heat Pumps. BPA will offer access to the Northeast Energy Efficiency Partnership (NEEP) Cold Climate Specification List for air source heat pumps (including ductless heat pumps) that retain their efficiency at lower operating temperatures. This is an optional resource. Utilities will not be required to utilize models on this list.	Increasing measure support to address changing technology needs.
October 2019	10.7.1.2	Multiple Ductless Indoor Heads, Multiple Indoor Ducted Mini-Split Heat Pumps, Combination Indoor Head(s) and Ducted Mini-Split Heat Pump(s), and Homes with Multiple Outdoor Compressors – BPA Qualified. Beginning October 1st, this measure will be discontinued. Multi-head DHPs and DHPs with multiple outdoor compressors will be reportable under measure 10.7.1.1 with corresponding energy savings and incentive payments. BPA will recognize only one DHP regardless of the number of outdoor or indoor units and will require that the outdoor compressor meet a minimum HSPF of 9.0.	Measure simplification to align HSPF requirement (9.0) and payments (\$800) for DHPs with a single- or multi- head and systems with more than one outdoor compressor.
October 2019	10.7.1.3	Residential Ductless Heat Pumps. Only one ductless heat pump may be claimed per home, regardless of the home's sq. ft. A DHP may be claimed in addition to a PTCS or non-PTCS air source heat pump (ASHP) if installed in a home with more than 4,500 sq. ft. See change notices for sections 10.7.2, 13.2.3.1, and 13.2.3.2.	This clarification is to ensure energy savings are not diluted.

EFFECTIVE DATE (POSTED DATE)	LOCATION	DESCRIPTION	RATIONALE
October 2019	10.7.1.3	Residential Ductless Heat Pumps. BPA will no longer require that DHPs be installed by a HVAC company listed on the Northwest Ductless Heat Pump Installer GoingDuctless.com website.	BPA will no longer distinguish between single-head and multi-head installations. The Northwest Ductless Heat Pump installer designation promotes single-head applications of DHPs.
October 2019	10.7.1.3	Residential Ductless Heat Pumps. BPA will offer access to the Northeast Energy Efficiency Partnership (NEEP) Cold Climate Specification List for air source heat pumps (including ductless heat pumps) that retain their efficiency at lower operating temperatures. This is an optional resource. Utilities will not be required to utilize models on this list.	Increasing measure support to address changing technology needs.
October 2019	10.7.2	PTCS. The PTCS section of the IM will be reorganized to clarify which requirements are assigned to each measure. This reorganization will not include substantive changes that are not included elsewhere in this change notice.	This measure change better clarifies program requirements.
October 2019	10.7.2.1	PTCS Air Source Heat Pump. Only one ducted ASHP may be claimed per home in homes that are up to 4,500 sq ft. Homes that are larger than 4,500 sq ft may claim up to two heating systems and no more. This can include two ducted systems or one ducted and one ductless heat pump. No more than two payments may be claimed for two heat pumps (DHP, non-PTCS ASHP, PTCS ASHP).	This clarification is to ensure energy savings are not diluted.
October 2019	10.7.2.1	PTCS Variable Speed Air Source Heat Pumps. To qualify, units must meet a minimum HSPF of 9.0.	This clarifies our HSPF requirement which previously did not specifically call out Variable Speed Air Source Heat Pumps, although this was implied in the HSPF reference to Air Source Heat Pumps.
October 2019	10.7.2.1	For PTCS Variable Speed Air Source Heat Pump measures, the outdoor compressor must be variable speed, inverter-driven. A variable speed indoor air handler does not meet the requirements of this measure.	This is additional language to ensure the installed equipment meets the program requirements.
October 2019	10.7.2.1	PTCS Air Source Heat Pumps and PTCS Variable Speed Air Source Heat Pumps. In single-family new construction, PTCS heat pump installations will qualify for the upgrade measure only.	This clarifies our requirements that in single-family new construction, PTCS heat pump installations do not qualify for the conversion measure.
October 2019	10.7.2.1	PTCS Variable Speed Air Source Heat Pump. BPA will begin offering access to the Northeast Energy Efficiency Partnership (NEEP) Cold Climate Specification List for air source heat pumps (including ductless heat pumps) that retain their efficiency at lower operating temperatures. This is an optional resource. Utilities will not be required to utilize models on this List. This product list only applies to variable speed compressor technology.	Increasing measure support to address changing technology needs.

EFFECTIVE DATE (POSTED DATE)	LOCATION	DESCRIPTION	RATIONALE
October 2019	10.7.2.3	Prescriptive Duct Sealing. BPA will no longer require that prescriptive duct sealing installation information be entered into the registry. Beginning in October 2019 utilities will only be required to keep the Prescriptive Duct Sealing Installation Form in the customer file. However, PTCS Duct Sealing will continue to require installation information be entered into the registry.	This measure change is to simplify the program requirements.
October 2019	10.7.2.3	PTCS and Prescriptive Single Family Duct Sealing. Savings will change slightly. Heating Zone 1 will increase slightly, and Heating Zones 2 and 3 will decrease slightly. Payments will not change.	These changes align us with the recent savings changes approved by the RTF.
October 2019	10.8.2	Smart Thermostats. Include missing requirement by adding language that requires occupancy detection be set to "on" in order to qualify for specification.	Correct measure to include necessary item in specification.
October 2019	10.9.1	NEEM 1.1, NEEM 2.0. Energy savings will decline slightly and the measure structure will change from the current structure which uses specific heating types to an "any electric" measure structure in order to respond to RTF measure changes. Payments will not change.	This change responds to RTF measure structure change.
October 2019	10.9.3	Single-Family New Construction Performance Path, Montana House, BPA Energy Efficient New Multifamily Construction, BPA Zero Energy Ready New Multifamily Construction. BPA will modify the requirements to clarify that the permit date is the date to be used to determine code compliance for single family and multifamily new construction measures. This requirement will apply to all single family and multifamily new construction measures.	The current program language isn't clear. Permit date is the date used by inspectors to determine compliance with energy code, therefore BPA adopts this approach.
October 2019	10.9.4	BPA will clarify that the permit date is the date to be used to determine code compliance for single family and multifamily new construction measures. This requirement will apply to all single family and multifamily new construction measures.	The current program language isn't clear. Permit date is the date used by inspectors to determine compliance with energy code, therefore BPA adopts this approach.
October 2019	10.9.4	Montana House. BPA will adopt RTF changes to the Montana House measure including: 1. no longer having measure identifiers by cooling zone, 2. collapsing vented and unvented crawlspace measures into a single measure 3. adding Montana House measures for Idaho, designated "Montana House - ID."	These changes align BPA with the RTF approved measure changes.
October 2019	10.9.5	BPA will clarify that the permit date is the date to be used to determine code compliance for single family and multifamily new construction measures. This requirement will apply to all single family and multifamily new construction measures.	The current program language isn't clear. Permit date is the date used by inspectors to determine compliance with energy code, therefore BPA adopts this approach.

EFFECTIVE DATE (POSTED DATE)	LOCATION	DESCRIPTION	RATIONALE
October 2019	10.9.6	BPA will clarify that the permit date is the date to be used to determine code compliance for single family and multifamily new construction measures. This requirement will apply to all single family and multifamily new construction measures.	The current program language isn't clear. Permit date is the date used by inspectors to determine compliance with energy code, therefore BPA adopts this approach.
October 2019	10.10	Weatherization. Energy Savings in low-rise multifamily buildings will increase slightly for Floor and Wall Insulation, Exterior Insulated Doors, single-pane Window and Patio Door Replacement and Low-E Storm Windows. Energy Savings in low-rise multifamily buildings will decrease slightly for Attic Insulation and double-pane Window and Patio Door Replacement.	Savings changes reflect an RTF correction as a result of errors identified in SEEM workbooks.
October 2019	10.10.1	Insulation. The sloped surface of an A-frame home (the entire roof structure) must be insulated and invoiced as an unvented attic.	Clarification of program requirements. When insulating A-frame homes, refer to section 4.6 Unvented Attics in the BPA Residential Weatherization Specifications.
October 2019	10.10.1	Insulation. BPA will remove REFNOs for existing heating types: Electric FAF, Zonal, and Heat Pump. These heating types are still eligible for insulation, however all insulation measures shall be reported using the "Any Electric Heat" weighted average. Energy savings may decrease slightly for utilities accustomed to reporting HVAC-specific heating types.	This reporting change simplifies the insulation measure suite to support increased utilization.
October 2019	10.10.1	Insulation. BPA will increase incentive payments for attic, floor, and wall insulation in existing residential buildings (single-family, multi-family, and manufactured homes).	BPA is increasing insulation payments to incent acquisition of high value energy savings identified by the BPA Resource Program.
October 2019	10.10.2	Prime Window and Patio Door Replacement. BPA will remove REFNOs for existing heating types: Electric FAF, Zonal, and Heat Pump. These heating types are still eligible for prime window and/or patio door replacement, however all measures shall be reported using the "Any Electric Heat" weighted average. Energy savings will decrease slightly for utilities accustomed to reporting HVAC-specific heating types.	This reporting change simplifies the window measure suite to support increased utilization.
October 2019	10.10.2	Prime Window and Patio Door Replacement. BPA will increase incentive payments for prime window and patio door replacement in existing residential buildings (single-family, multi-family, and manufactured homes). BPA will need to reduce payments for prime windows if future evaluation results demonstrate lower energy savings. Please note: payments are not changing for 10.10.3 Low-E Storm Windows.	BPA is increasing window and patio door payments to incent acquisition of high value energy savings identified by the BPA Resource Program.

EFFECTIVE DATE (POSTED DATE)	LOCATION	DESCRIPTION	RATIONALE
October 2019	10.10.3	Low-E Storm Windows. BPA will discontinue the current low-e storm window specification and instead utilize the new Energy Star Storm Window Certification. Beginning October 1st, all Low-E Storm Windows must be Energy Star certified to qualify for BPA incentives. This will not result in any change to energy savings or payment amounts.	Energy Star adopted a national specification for Low-E Storm Windows. BPA will align Low-E Storm window requirements with the Energy Star certification to simplify program delivery.
October 2019	10.10.4	Exterior Insulated Doors (BPA-Qualified). BPA will publish Energy Star U-value requirements for exterior insulated doors. BPA will allow utilities to provide documentation that doors meet U-value requirements in lieu of the Energy Star certification. Utilities must document proof of qualifying product specifications or proof of the Energy Star certification in the customer file. Exterior Insulated Doors must meet U-value requirements of ≤ 0.17 for opaque doors, ≤ 0.25 for doors with up to 50% glazing, and ≤ 0.30 for doors with greater than 50% glazing.	BPA will allow alternative ways to comply with Exterior Insulated Door specifications.
New Measures			
October 2019	13.2.3.1	Air Source Heat Pump Conversion (without PTCS). Only one ducted ASHP may be claimed per home in homes that are up to 4,500 sq ft. Homes that are larger than 4,500 sq ft may claim up to two heating systems and no more. This can include two ducted systems or one ducted and one ductless heat pump. No more than two payments may be claimed for two heat pumps (DHP, non-PTCS ASHP, PTCS ASHP).	This clarification is to ensure energy savings are not diluted.
October 2019	13.2.3.2	Variable Speed Air Source Heat Pump Conversion (without PTCS). Only one ducted Variable Speed ASHP may be claimed per home in homes that are up to 4,500 sq ft. Homes that are larger than 4,500 sq ft may claim up to two heating systems and no more. This can include two ducted systems or one ducted and one ductless heat pump. No more than two payments may be claimed for two heat pumps (DHP, non-PTCS ASHP, PTCS ASHP).	This clarification is to ensure energy savings are not diluted.
October 2019	13.2.3.2	For the Air Source Heat Pump Conversion from Electric Forced Air Furnace to Variable Speed Air Source Heat Pump (without PTCS) measure, the outdoor compressor must be variable speed, inverter-driven. A variable speed indoor air handler does not meet the requirements of this measure.	This is additional language to ensure the installed equipment meets the program requirements.
October 2019	13.2.3.2	Variable Speed Air Source Heat Pump Conversion (without PTCS). BPA will begin offering access to the Northeast Energy Efficiency Partnership (NEEP) Cold Climate Specification List for air source heat pumps (including ductless heat pumps) that retain their efficiency at lower operating temperatures. This is an optional resource. Utilities will not be required to utilize models on this List. This product list only applies to variable speed compressor technology.	Increasing measure support to address changing technology needs.