

# 2016-2017 Implementation Manual Updates: Changes and Corrections Summary

March 30, 2017





# IM Non-Programmatic Updates

Presenter: Elissa Newton

Changes Effective April 1, 2017

# Definitions

## Effective April 1, 2017

**Correction:** **B/C Ratio:** Clarifies the definition to provide additional information and remove ambiguity. “The B/C ratio equals the total benefits over the life of the project divided by the installation cost.”

**Rationale:** Clarifies the definition to provide additional information.

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**Correction:** **Connected Thermostat:** Clarifies that thermostats can use Wi-Fi or have wireless capabilities to connect to the internet. It is listed in the Definitions section as “**Thermostats-Connected**” to be categorized with the other types of thermostats.

**Rationale:** Clarifies the definition to remove ambiguity and to maintain consistency with the definition of smart thermostats.

# Definitions

## Effective April 1, 2017

**Change:** **Desuperheater:** Adds a definition. “A heat exchanger inside the geothermal heat pump that heats the home’s hot water (this is in addition to water being heated with the home’s hot water heater). The desuperheater, like a heat pump water heater, reduces the energy used to heat water.”

**Rationale:** Addresses requests to define “Desuperheater” in relation to the Ground Source Heat Pump measure.

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**Correction:** **Fuel Switching:** Clarifies the definition to “switching from electric heating to nonelectric heating,” which is not eligible.

**Rationale:** The previous definition was vague, stating “the switching of one type of energy consumption to another.” This clarification more-narrowly defines fuel switching.

# Definitions

## Effective April 1, 2017

**Change: Improper Payment:** Adds a definition. “Congress has defined an ‘improper payment’ to mean any payment made for an incorrect amount (including overpayments and underpayments)...”

**Rationale:** Provides clarity that BPA has an obligation to address all improper payments.

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**Change: Smart Thermostat:** Adds a definition. Listed in the Definitions section as “**Thermostats-Smart**” to be categorized with the other types of thermostats. “Thermostats that can be Wi-Fi enabled with remote access have programmable and/or learning-based scheduling, and can detect occupancy resulting in automatic HVAC reduction when a space is unoccupied.”

**Rationale:** Smart Thermostat defined.

# Definitions

**Effective April 1, 2017**

**Correction:** **VRF:** Spells out the acronym for Variable Refrigeration Flow.

**Rationale:** Responds to a request that we spell out more acronyms in the Definitions Section.

# BPA Funding

## Effective April 1, 2017

**Correction:** Adds a paragraph to the “ECA Implementation Budget Redistribution” (Bilateral Transfers and Pooling Organizations) section. In sum, customers may authorize a third party to request BPA to redistribute EEI funds on their behalf.

**Rationale:** Language updated to reflect the policy change regarding bilateral transfers that came out of the Focus 2028 process.

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**Correction: Performance Payment Calculator:** Effective February 16, 2017, an updated version of the Performance Payment (PF) Calculator (version 2.0) has been published to both the Customer Portal (found in Library → Resources on the Energy Efficiency tab) and to the [Interim Solutions 2.0 Files](#) webpage.

**Rationale:** This calculator was revised to correct the SRR status of a few utility customers. There were no technical changes.

# Custom Projects

## Effective April 1, 2017

**Correction:** Adds language to the Custom Project section stating that the site to busbar savings factor being used is 1.09056. Also updated the “busbar energy savings” definition.

**Rationale:** This is a customer-driven clarification request.





# IM Non-Programmatic Updates

Presenter: Elissa Newton

Changes Effective October 1, 2017

# General

## Effective October 1, 2017

**Change:** Effective October 1, 2017, BPA will be updating its heating and cooling zone assignments. Some utilities will be assigned to a new heating or cooling zone, and the new assignments will be posted in the “October 2017 Measure Changes” document. New heating and cooling zone maps that are currently posted on the Residential Weatherization [webpage](#) will be relocated to a more-accessible page.

More information will be forthcoming using traditional communication channels.

**Rationale:** RTF staff provided a climate zone update using current NOAA weather data.

# BPA Funding

## Effective October 1, 2017

**Change:** Updates the definition for “**Rollover Amount**” from five percent to “the greater of 10 percent or \$50,000” of a utility's initial rate period budget. Both the Definition and the Inter-Rate Period Budget Flexibility in Section 2: Funding have been updated.

**Rationale:** This update was announced in October 2016 in BPA Administrator Mainzer's EE Focus 2018 Closeout Letter, which memorializes the changes and direction that EE plans to take in order to improve its programs. This change is aimed at assisting smaller customers who have expressed concerns about flexibility and funding large projects.

# Custom Projects

## Effective October 1, 2017

**Change:** Effective October 1, 2017, BPA will be retiring all previous versions of the Option 1 Custom Project Calculator, older than version 4.0.

**Rationale:** BPA's reporting system, IS2.0, has compatibility issues with the older versions of the C1 file. If you need assistance converting older file versions over to 4.0, please contact your EER.



## Agricultural Sector

Presenter: Stephanie Vasquez



# Agricultural Sector

**Effective April 1, 2017**

No changes to announce



**Commercial Sector**  
**Presenter: John Wilson**  
**Changes Effective April 1, 2017**



# Commercial Sector

**Effective April 1, 2017**

**Correction:** **Advanced Rooftop Controls (ARC):** This pre-condition language correction has been provided to clarify that cooling capacity is “equal to or greater than” five tons.

**Rationale:** Removes ambiguity about cooling capacity.

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**Correction:** **Advanced Rooftop Controls (ARC):** Clarifies acceptable methods to round tons for purposes of calculating project payment.

**Rationale:** Removes ambiguity and address methods to round tons for the purpose of calculating payment eligibility.





# Commercial Sector

## Effective April 1, 2017

**Correction: Ductless Heat Pump:** A pre-condition clarification that if the space was previously conditioned by an air source, ground source, or DHP that is no longer working, and the space is conditioned by the backup zonal or forced air electric resistance heat, the application is eligible for a DHP retrofit.

**Rationale:** This change is made to simplify requirements.

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**Correction: Ductless Heat Pump:** Clarifies that, in postconditions, the outdoor unit for a multihead system must be listed on the Qualified Product List.

**Rationale:** Addresses questions about multihead systems and clarifying that they must also be on the QPL to qualify for a payment.

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**Correction: Ductless Heat Pump:** Clarifies acceptable methods to round tons for purposes of calculating project payment.

**Rationale:** Removes ambiguity and addresses methods to round tons for the purpose of calculating payment eligibility.



# Commercial Sector

**Effective April 1, 2017**

**Change: Heat Pump Conversion:** Removes dual-metric CEE requirements specifically to remove the CEE Energy Efficiency Ratio (EER) requirement for certain classes of heat pumps. The updated requirements will be documented in a new “BPA Heat Pump and VRF Specification” that will be available in the IM Document Library.

**Rationale:** Removes requirements to streamline implementation.

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**Correction: Heat Pump Conversion:** Clarifies acceptable methods to round tons for purposes of calculating project payment.

**Rationale:** Removes ambiguity and addresses methods to round tons for the purpose of calculating payment eligibility.



# Commercial Sector

**Effective April 1, 2017**

**Change: Heat Pump Upgrade:** Streamlines the pre-condition requirements, removes the 50,000 square feet building limitation, and clarifies the requirement that the new heat pump replaces an existing heat pump. Removes dual-metric CEE requirements specifically to remove the CEE Energy Efficiency Ratio (EER) requirement for certain classes of heat pumps. The updated requirements will be documented in a new “BPA Heat Pump and VRF Specification” that will be available in the IM Document Library.

**Rationale:** Clarifies language for the pre-existing building conditions and removes some requirements for ease of implementation.

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**Change: Heat Pump Upgrade:** Removes dual-metric CEE Tier requirements. It specifically removes the CEE Energy Efficiency Ratio (EER) requirement for Air Cooled (Cooling Mode) heat pumps. The updated, simplified requirements will be documented in a new “BPA Heat Pump and VRF Specification” that will be available in the IM Document Library.

**Rationale:** Removes the requirements to streamline implementation.



# Commercial Sector

**Effective April 1, 2017**

**Correction: Heat Pump Upgrade:** Clarifies acceptable methods to round tons for purposes of calculating project payment.

**Rationale:** Removes ambiguity and addresses methods to round tons for the purpose of calculating payment eligibility.

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**Correction: Connected Thermostat:** Clarifies pre-conditions. Buildings are eligible for more than one connected thermostat as long as each connected thermostat controls an existing HVAC system, which has a separate supply fan serving a separate zone.

**Rationale:** Removes ambiguity for applications that require more than one thermostat.



# Commercial Sector

**Effective April 1, 2017**

**Change: Variable Refrigeration Flow System:** Removes dual-metric CEE Tier requirements, specifically removing the CEE Energy Efficiency Ratio (EER) requirement for VRF Air Cooled (Cooling Mode) heat pumps. The updated, simplified requirements will be documented in a new “BPA Heat Pump and VRF Specification” that will be available in the IM Document Library.

**Rationale:** Removes requirements and updates required documentation to streamline implementation.

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**Correction: Variable Refrigeration Flow System:** Clarifies acceptable methods to round tons for purposes of calculating project payment.

**Rationale:** Removes ambiguity and address methods to round tons for the purpose of calculating payment eligibility.



# Commercial Sector

## New Measure Available on April 1, 2017

**Change:** **Variable Frequency Drive on Air Handling Unit Fan (VFD on AHU Fan) (BPA Qualified):** Introducing a new measure that pays out at \$300 per horsepower.

**Rationale:** New measure. For additional programmatic information, see Section 13 of the published IM.



## Commercial Sector

Presenter: John Wilson

Changes Effective October 1, 2017



# Commercial Sector

**Effective October 1, 2017**

**Correction: Ductless Heat Pump:** The post-condition rating for multiheaded systems is changing from 8.0 HSPF to 8.2 HSPF. This change is consistent with the Residential Sector.

**Rationale:** Provides six-months notice to address that current requirements incorrectly list 8.0 HSPF for multi-head systems. As of January 1, 2015, the Federal minimum HSPF for split-system heat pumps is 8.2.





# Commercial Sector

**Effective October 1, 2017**

**Change: Heat Pump Conversion (BPA Qualified):** Provides six- months notice that the Heat Pump Conversion measure will be retiring.

**Rationale:** BPA will be replacing the current Heat Pump Conversion measure with a new, streamlined Heat Pump Conversion measure on October 1, 2017 which does not require a site specific calculator tool.

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**Change: Heat Pump Conversion (updated measure):** This measure replaces the retired Heat Pump Conversion measure.

**Rationale:** In the new measure, which will be effective on October 1, 2017, BPA has removed several heat pump conversion requirements and deemed the savings value for more streamlined implementation.



# Commercial Sector

**Effective October 1, 2017**

**Change: Insulation:** The commercial insulation measures will be simplified, incentives will increase, and the measures will be expanded to simplify measure interpretation and implementation.

**Rationale:** These BPA-Qualified measures see little uptake, though savings are promising. By increasing the willingness to pay, and by making the measure easier to understand and implement, we aim to increase uptake.



## Industrial Sector

Presenter: Todd Amundson

Changes Effective April 1, 2017



# Industrial Sector

## Effective April 1, 2017

**Correction: Payment Summary Table:** Several Program Component rows were incorrectly added under the Energy Management header and were moved up. The rows that were relocated include: Trade Ally Delivered Small Industrial Measures, BPA-Funded TSP, and VFDs for Fans in Spud and Onion Storage Facilities.

**Rationale:** Corrects the Payment Summary table as these program components are not part of Energy Management.

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**Correction: SEM Projects (Optional Energy Management Feature):** Under the Required Documents, replaced the title of the “SI HPEM Calculator” with “Strategic Energy Management Calculator.”

**Rationale:** The name of the linked calculator was not correct.



# Industrial Sector

## Effective April 1, 2017

**Correction: SEM Projects (Optional Energy Management Feature):** In the Performance Period section the following sentence was added, “The baseline will be re-established after each two-year performance period.”

**Rationale:** Clarifies the SEM project baseline.

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**Correction: SEM Projects (Optional Energy Management Feature):** Updated the Optional-Performance Tracking System requirement #1 to read, “1. Collect key energy performance indicators sufficient to predict energy consumption or track performance at a facility or system level.”

**Rationale:** Clarifies the requirements as customers may not always receive production information.



# Industrial Sector

## Effective April 1, 2017

### **Correction: SEM Projects (Optional Energy Management Feature):**

Language clarification in the Optional-Performance Tracking System table, Verification fields to replace “tune-up” with “implementation.”

**Rationale:** Broader language used to reflect that not all SEM sites have tune-ups.

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**Correction: SEM Projects (Optional Energy Management Feature):** Clarified requirement language within the Savings Report table, Performance Period section to read: “The SEM performance period starts: 1. No earlier than the SEM kick-off workshop or tune-up event, whichever is applicable. 2. No later than a date determined by BPA and the customer. For re-enrolled SEM participants, customers may choose a continuous performance period or opt to delay the start of the performance period as defined in the SEM engagement plan report.”

**Rationale:** Clarifies requirements around the SEM performance period and allows flexibility with the ROC (Refrigerator Operator Coaching) offering.



# Industrial Sector

## Effective April 1, 2017

**Change:** **SEM Projects (Optional Energy Management Feature):** In the Documentation Requirements, the PTS design proposal is made optional. It also clarifies if available, keep it in the customer file.

**Rationale:** Updates a documentation requirement by making the PTS design proposal optional because the PTS design may not be related to scoping and the SEM Calculator states this as optional.

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**Correction:** **SEM Projects (Optional Energy Management Feature):** In the Payment table, we modified the BPA Approves Annual Completion Report row to clarify the difference in payment when there is cost documentation versus no cost documentation.

**Rationale:** Clarifies requirements.



# Industrial Sector

**Effective April 1, 2017**

**Correction: BPA-Funded Technical Service Providers (Optional ESI Component):** The Requirements and Specifications section was updated to clarify technical service provider funding is also available for SEM projects.

**Rationale:** TSP funding has always been available for both custom projects and SEM projects.





## Industrial Sector

Presenter: Todd Amundson

Changes Effective October 1, 2017



# Industrial Sector

## Effective October 1, 2017

**Change: SEM Projects (Optional Energy Management Feature):** Provided six-months notice that the due date for the PTS design proposal is being modified from “completion of T&T scoping” to “prior to installation of PTS.”

**Rationale:** The language is being clarified to reflect that the PTS design may not be related to scoping.

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**Correction: Limited Availability Small Industrial High-Performance Energy Management:** Effective October 1, 2017, this program will expire and this section will be removed from the IM.

**Rationale:** Provides six-months notice for the expiration of this measure. The ESI Small Industrial SEM (no longer HPEM) pilot is complete and it is part of SEM Projects.



# Residential Sector – Part 1

Presenter: Dave Murphy

Changes Effective April 1, 2017



# Residential Sector

## Effective April 1, 2017

**Correction: Showerheads:** A language correction has been made to the Basis for Energy Savings stating that the base case is calculated to meet the RTF's current practice baseline, not the Federal Standards.

**Rationale:** The incorrect organization was referenced. The error has been caught and corrected.

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**Correction: Thermostatic Shut-Off Valves (TSV):** The Requirements and Specifications section has been clarified to read: “Customers claiming the measures By Request or Direct Install must document a request by the end-user. Customers claiming measures for electric water heaters must identify a hot-water fuel source.”

**Rationale:** Provides additional clarity when TSVs are distributed via the distribution method By Request or Direct Install.



# Residential Sector

## Effective April 1, 2017

**Correction: Heat Pump Water Heater:** A language correction was made to the Basis for Energy Savings stating that the base case is calculated meeting the RTF's current practice baseline, not the Federal Standards.

**Rationale:** The incorrect organization was referenced. The error has been caught and corrected.



# Residential Sector

## New Measures Available on April 1, 2017

**Change: Advanced Power Strips for Residential Desktop Computers:**

Refer to the “October 2017 Measure Changes Document” and Section 13 for additional information.

**Rationale:** New measure. For additional programmatic information, see Section 13 of the published IM.



## Residential Sector

Presenter: Dave Murphy

Changes Effective October 1, 2017



# Residential Sector

## Effective October 1, 2017

**Change:** **ENERGY STAR CFLs and Linear Fluorescent Fixtures:** Effective October 1, 2017, CFL lamp measures will expire and will not be replaced.

**Rationale:** Measure is expiring because of decreased savings and reduced market share.

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**Change:** **ENERGY STAR Solid-State Lighting/Light-Emitting Diodes Bulbs and Fixtures:** Effective October 1, 2017, the LED bulbs and fixtures section will read, “The base case for LEDs factors in current socket saturation and Energy Independence and Security Act (EISA) compliance uses a weighted average of incandescent, halogen and CFL bulbs.”

**Rationale:** Updates the Basis for Energy Savings to provide additional clarity.





# Residential Sector

## Effective October 1, 2017

**Change:** **ENERGY STAR Solid-State Lighting/Light-Emitting Diodes Bulbs and Fixtures:** Effective October 1, 2017, LED bulb and LED fixtures' savings will decrease and lumen bins will be established for fixtures. For a very few types of LED bulbs, the savings will increase.

**Rationale:** Aligns with new RTF LED lamp and fixture measures.

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**Change:** **ENERGY STAR Solid-State Lighting/Light-Emitting Diodes Bulbs and Fixtures:** Effective October 1, 2017, the Shop Light measures will expire and will not be replaced.

**Rationale:** The RTF-approved measures for shop lights estimated savings are too low to provide a payment on. New data indicates that the efficacy of LED shop lights is only marginally more efficient than the linear fluorescent technologies in the baseline.



# Residential Sector

## Effective October 1, 2017

**Change: Appliances:** Effective October 1, 2017, residential appliance measures (clothes washers and clothes dryers) are allowable for incentives in commercial applications.

**Rationale:** Removes some conditional requirements to enable customers to use these measures in small numbers of light commercial businesses.

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**Change: Refrigeration and Freezer Decommissioning:** Effective October 1, 2017, refrigerator and freezer decommissioning measures will expire and will not be replaced.

**Rationale:** These measures are expiring due to decreasing numbers of older vintage units and to align with other regional offerings.

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**Change: Showerheads:** Effective October 1, 2017, showerhead savings will decrease.

**Rationale:** Provides six-months notice of decreasing savings to align with the RTF's updated showerhead savings.



# Residential Sector

## Effective October 1, 2017

**Change:** **BPA Simple Steps, Smart Savings Retail Promotion:** Effective October 1, 2017, duplicates of current measures will be created specifically for the Simple Steps program. Utility measures for residential lighting, showerheads and appliances will remain unchanged.

**Rationale:** Creates additional reference numbers specifically for Simple Steps to improve reporting and evaluation data, and to differentiate between Simple Steps savings and utility program savings.

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**Change:** **BPA Simple Steps, Smart Savings Retail Promotion:** The language in the Simple Steps section will be updated to reflect the requirement to provide details of retail savings reporting methodologies, which are different from the Retail Sales Allocation Tool (RSAT).

**Rationale:** Provides six-months notice of the creation of a new requirement to clarify that when not using the RSAT, alternative retail savings reporting methodologies must be provided for review. This is so BPA can detect and prevent double counting.



## Residential Sector – Part 2

Presenter: Jessica Kramer

Changes Effective April 1, 2017



# Residential Sector

## Effective April 1, 2017

**Correction: Ductless Heat Pumps:** DHP installer language has been corrected within the Requirements and Specifications section.

**Rationale:** Current Requirements and Specifications incorrectly refers to NEEA's Going Ductless Oriented and Master Installer List as “Northwest Ductless Orientation.” This language was corrected to state that installers must be listed on the Going Ductless Program Installer list.

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**Correction: Ductless Heat Pumps:** Updated the [DHP Best Practices Guide for Installing Ductless Heat Pumps](#), which is also published to the BPA website in the Residential Sector under DHP's Program Tools and Resources.

**Rationale:** There is a new guide available from NEEA's Northwest Ductless Heat Pump Project. The new guide contains no new requirements.



# Residential Sector

## Effective April 1, 2017

**Correction: Ductless Heat Pumps:** Adds additional clarification to the Requirements and Specifications section for home additions.

**Rationale:** In home additions that are not serviced by ducts, the baseline would be zonal electric, thus creating an opportunity for DHP installs.

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**Change: Air Source Heat Pumps and Variable Speed Heat Pumps:** Requirements and Specifications have been updated.

**Rationale:** Removes repetitious, outdated or unnecessary specifications to ease program implementation.



# Residential Sector

**Effective April 1, 2017**

**Change: Air Source Heat Pumps and Variable Speed Heat Pumps:**

Removes the AHRI Documentation Requirement.

**Rationale:** This documentation is available electronically through AHRI and is captured in the PTCS Registry. It's not needed to be kept in the customer's file.

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**Correction: Ground Source Heat Pumps:** Updates the Requirements and Specifications to provide additional clarification on the measure.

**Rationale:** Reorganizes section to make the conversion and upgrades section easier to use.



# Residential Sector

## Effective April 1, 2017

**Correction: Ground Source Heat Pumps:** Clarifies the Requirements and Specifications section for compressor only replacements. Refer to the “October 2017 Measure Changes Document.”

**Rationale:** Currently, a “compressor only” replacement refers customers to the Air Source Heat Pump Upgrade section. To enhance clarity, two new reference numbers have been created in the Ground Source Heat Pump measure section.

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**Change: Ground Source Heat Pump:** Removes the AHRI Certificate Documentation Requirement.

**Rationale:** This documentation is available electronically through AHRI and captured in the PTCS Registry.





# Residential Sector

## Effective April 1, 2017

**Correction: Line-Voltage Thermostats:** Updates the Requirements and Specifications to clarify that this measure applies to both single-family and multifamily homes.

**Rationale:** Correction to Requirements and Specification section to state measure applies to single-family and multifamily residences.

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# Residential Sector

## New Measures Available on April 1, 2017

**Change: Smart Thermostats:** Refer to the “October 2017 Measure Changes Document” and Section 13 for additional information.

**Rationale:** New measure. For additional programmatic information, see Section 13 of the published IM.

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**Change: Ductless Heat Pumps:** DHPs are now available in new single-family construction in Idaho, Montana, Oregon and in new manufactured homes in all states. Please see Section 13: New Measures for additional information.

**Rationale:** This measure is now RTF approved. A new application for an existing technology is considered a new measure, which can be offered without notice in April.



## Residential Sector

Presenter: Jessica Kramer

Changes Effective October 1, 2017



# Residential Sector

## Effective October 1, 2017

**Change: Ductless Heat Pumps:** Correcting Multihead HSPF of 8.0 to reference current Federal Minimum Standard of 8.2. This change is consistent with the Commercial Sector.

**Rationale:** Provides six-months notice to address that current requirements incorrectly list 8.0 HSPF for multiheaded systems. As of January 1, 2015, the Federal minimum HSPF for split-system heat pumps is 8.2.

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**Change: Air Source Heat Pumps and Variable Speed Heat Pumps:** Heat Pump Conversion savings reduction. Refer to the “October 2017 Measure Changes Document.”

**Rationale:** Provides six-months notice that there will be updated savings data.



# Residential Sector

## Effective October 1, 2017

**Change: Ground Source Heat Pumps:** Loop design documentation will be added to the Documentation Requirements.

**Rationale:** Current documentation does not include technicians to submit loop design documentation which supports verification of correct system sizing.

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**Change: Ground Source Heat Pumps:** Provides six-months notice for a change in the measure savings. Refer to the “October 2017 Measure Changes Document.”

**Rationale:** SEEM calibration results in updated savings for all Ground Source Heat Pump measures.



# Residential Sector

## Effective October 1, 2017

**Change: Ground Source Heat Pumps:** Provides six-months notice that BPA will be expiring all new construction reference numbers and replacing them with new reference numbers.

**Rationale:** Replaces separate upgrade and conversion new construction measures with one set of measures that use a weighted baseline.



# Residential Sector

## Effective October 1, 2017

**Change: Duct Sealing – PTCS or Prescriptive:** Decrease in savings for Duct Sealing in manufactured homes. Refer to the “October 2017 Measure Changes Document.”

**Rationale:** BPA is using PTCS impact evaluation results to analyze and estimate updated savings.

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**Change: Duct Sealing – PTCS or Prescriptive:** Decrease in Payment for Duct Sealing in manufactured homes. Refer to the “October 2017 Measure Changes Document.”

**Rationale:** BPA is using PTCS impact evaluation results to estimate updated savings and associated payment.



# Residential Sector

## Effective October 1, 2017

**Change: Line-Voltage Thermostats:** Provides six-months notice that the savings are going from a per-home to a per-unit basis.

**Rationale:** This change will allow the savings to be captured on a per unit approach.

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**Change: Line-Voltage Thermostats:** Provides six-months notice that the incentive is changing from per-home to per- thermostat.

**Rationale:** This change allows payments to be made on a per-unit approach.





## Residential Sector - Part 3

Presenter: Jess Kincaid

Changes Effective April 1, 2017



# Residential Sector

## Effective April 1, 2017

**Correction: Montana House (v2.0):** The Measure List will be updated to include offerings for all Idaho and Montana heating zones to correct an omission. Ground source heat pump payments under Montana House are corrected in the Measure List to match the Implementation Manual.

**Rationale:** Corrects inconsistencies between the Measure List and Implementation Manual.



# Residential Sector

## New Measures Available on April 1, 2017

**Change:** **Single-Family New Construction Performance Path:** Refer to the “October 2017 Measure Changes Document” and Section 13 for additional information.

**Rationale:** New measure. Standard Modeling Protocol for new single-family residential construction is now RTF approved.



## Residential Sector

Presenter: Jess Kincaid

Changes Effective October 1, 2017



# Residential Sector

## Effective October 1, 2017

**Change: New High Performance Manufactured Homes:** Provides six-months notice for the expiration of this measure.

**Rationale:** Manufacturers are no longer building to this specification and this program is no longer supported by NEEA or Northwest Energy Works.

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**Change: New ENERGY STAR/Built Green Single-Family Homes (OR, WA):** Provides six-months notice for the expiration of this measure.

**Rationale:** The energy savings for this measure were expired by the RTF.



# Residential Sector

## Effective October 1, 2017

**Change: Montana House (v2.0):** Modifies payment structure to Montana House payments. Payment levels for shell measures for all heating types, except ground source heat pumps, will remain the same, but shell measure payment levels for home with ground source heat pumps will decrease to \$500. However, payment for ground source heat pumps (with and without DeSuperheater) will increase to the payment level of stand-alone measure payment, resulting in an increase in overall payments. PTCS Variable Speed Heat Pump payments will also increase. Montana House Duct-Sealing payments will expire.

**Rationale:** Current Montana House payments for homes that heat with ground source heat pumps are less than payments for stand-alone heating measures. This modification aligns measure payments and reflects the additional energy savings of Montana House shell measures in homes heated with ground source heat pumps. Montana House Duct Sealing payments will expire because the current specifications (v2.0) requires that all ducts be located inside the heated area.



# Residential Sector

## Effective October 1, 2017

**Change: New ENERGY STAR Multifamily Construction:** Provides six-months notice for the expiration of this measure.

**Rationale:** This measure was expired by the RTF for Oregon and Washington and is no longer supported by NEEA in any state (ID, MT, OR, WA).

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**Change: Insulation:** Change in Multifamily Weatherization payment and energy-savings levels.

**Rationale:** Some payment and energy-savings levels for multifamily weatherization will change due to new RTF measure analysis. Attic insulation payments will decrease, some floor insulation payments will decrease, and some wall insulation payments will increase.



# Residential Sector

## Effective October 1, 2017

### **Change: Low-Income Weatherization, Ductless Heat Pumps and Duct Sealing:**

Clarifies the language that income qualification for multifamily dwellings may be made by building or complex. Clarifies that certification by a LIHEAP program administrator will meet income documentation requirements. Deletes duplicated language. Removes requirements and specifications language and instead points to relevant measure sections.

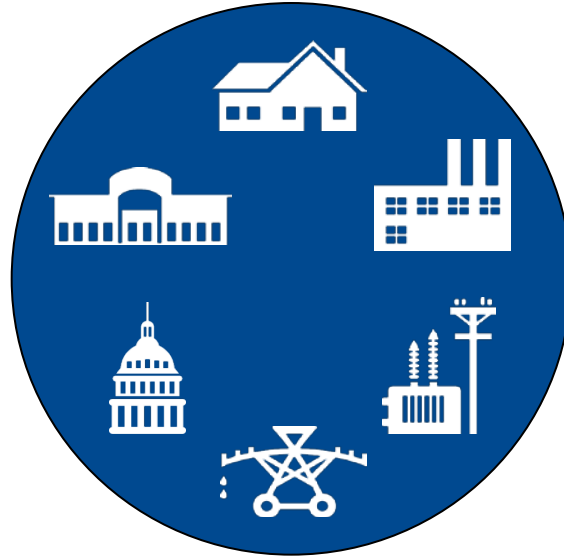
**Rationale:** Responds to questions received from utilities on the implementation of low-income measures.

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**Change:** BPA may merge multifamily new construction and multifamily weatherization measures from the current “residential” and “commercial” multifamily distinction into a single comprehensive program. The list of areas potentially affected are: Definitions, Section 7: Commercial, and Section 10: Residential.

**Rationale:** Removes duplication and eases implementation.





# Multi-Sector

Presenter: John Wilson

# Multi-Sector

## Effective October 1, 2017

**Change:** BPA will reorganize the Multi-Sector Section and corresponding measures so that they are located in their respective section of the IM where they are most commonly used. Measure list changes will reflect how to use the measures by sector.

**Rationale:** The Multi-Sector Section of the IM causes confusion for interpretation of how to implement the measure. By putting the measure in the section where it is most commonly used (and noting that it may be used in other applications), the goal is for more uptake, more flexibility in how the measures are approached, and simplified interpretation.

# Questions



If you have any additional questions, please don't hesitate to contact your Energy Efficiency Representative