

## Detail Summary of Changes to UES Measure List

This document summarizes changes made to measure structure and changes to key characteristics language. Changes to savings and payments are documented in the “October 2019 UES Measure List Changes” document.

### All Measures with Simple Steps Reference numbers

- “Simple Steps” was taken out of Key Characteristics 1 and Key Characteristics 4 now identified the delivery mechanism has “(Simple Steps or Other BPA Program)”. This also changed in the Delivery Mechanism column.
- New reference numbers were created for “Retail (Utility Run)” delivery mechanism which is noted in Key Characteristics 4. ). This also changed in the Delivery Mechanism column.
- Changes to Key Characteristics results in change to Measure Name

### Energy Saver Kits

- Removed “Simple Steps” from Key Characteristics 1 and added “By Request” or By Request (Simple Steps or Other BPA Program) to Key Characteristics 4 and Delivery Mechanism.
- Changes to Key Characteristics results in change to Measure Name

### Faucet Aerators

- Removed “Simple Steps” from Key Characteristics 1 and added “(Simple Steps or Other BPA Program)” to Key Characteristics 4 and Delivery Mechanism.
- Changes to Key Characteristics results in change to Measure Name

### Montana House

- The RTF no longer has measure identifiers for cooling zones, as a result cooling zone 1 and cooling zone 3 reference numbers were expired and cooling zone 2 measures are now “All Cooling Zones”
- RTF no longer has “Sealed” and “Vented” Crawlspace measure identifiers, as a result the “Sealed” reference numbers were retained and renamed “Crawlspace” in Key Characteristic 2.
- Changes to Key Characteristics results in change to Measure Name

### Heat Pump Water Heaters

- BPA is no longer tracking Heat Pump Water Heaters by Single Family or Manufactured Homes, the Manufactured Homes reference numbers are expiring.
- The RTF approved Heat Pump Water Heater measure identifiers for retail delivery mechanisms by state due to differences in building codes. There are now separate retail identifiers for Oregon, Washington , and MT/ID/WY/NV

## **Clothes Washers**

- “CEE Advanced / Tier 3” was replaced with “CEE Advanced in Key Characteristic 2
- Changes to Key Characteristics results in change to Measure Name

## **Ductless Heat Pumps**

- Reference numbers for “Multiple Head” measures in the Forced Air Furnace and Zonal application are expiring

## **Low-E Storm Windows**

- Installed Efficiency Level /Rating now has “ENERGY STAR”

## **Windows**

- All window measures for single family and manufactured homes now read “Prime Windows and Patio Doors” in Key Characteristic 2 instead of “Window”.
- Changes to Key Characteristics results in change to Measure Name

## **NEEM Certified Manufactured Homes**

- RTF no longer has measure identifiers for Electric Forced Air Furnace or Air Source or Ductless Heat Pump, all reference numbers for NEEM 1.1 measure are expiring
- New Measures for NEEM 1.1 “Any Electric” have been created with measure identifiers for 3 heating zones and 3 cooling zones

## **PTCS Heat Pumps and Duct Sealing**

- All PTCS measures now say “with PTCS” in the TAP column
- Changes to TAP results in change to Measure Name

## **Energy Saver Kits**

- All reference numbers now say “By Request” in Key Characteristic 4 and Delivery Mechanism
- Changes to TAP results in change to Measure Name

## **Agricultural Irrigation Hardware Measures**

- RTF no longer has measure identifiers for Multiple Configuration Nozzle Replacements, Drop Tube/Hose Extensions, Multi-Trajectory Sprays, Goose Necks, Impact Sprinkler Nozzle Replacements, and Low Pressure Regulators; the reference numbers for those identifiers are expiring
- Key Characteristic 1 wording updated for all Irrigation Hardware measures to match the wording in the BPA Implementation Manual
- Other Key Characteristics reworded or deleted for clarity
- Changes to Key Characteristics results in change to Measure Names

### **Commercial Cooking Measures**

- Added the Double Size Hot Food Holding Cabinet Measure from RTF updates
- RTF no longer has measure identifiers for 3-, 4-, 5-, and 10-pan Steam Cookers, the reference numbers for those identifiers are expiring

### **Commercial Air Source Heat Pumps**

- Air Source Heat Pump Upgrades are now one reference number that has a per ton basis of savings and incentives
- TAP is now “Air Source Heat Pumps” and sorting between Upgrade and Retrofit measures can now be done in the Key Characteristic 1 column
- Changes to TAP and Key Characteristics results in change to Measure Name

### **Commercial Ductless Heat Pumps**

- Condensed DHP measures from nine to two as DHP measures are no longer split between Heating and Cooling zones.
- Sorting between Upgrade and Retrofit measures can now be done in the Key Characteristic 1 column
- Changes to Key Characteristics results in change to Measure Name

### **Commercial Advanced Rooftop Controls**

- Updated the Key Characteristic 3 and overall measure values to match the new RTF measure
- Changes to Key Characteristics results in change to Measure Name

### **Commercial Connected Thermostats**

- Key Characteristic 1 clarifies “Connected” to match the wording of the RTF measure
- Key Characteristic 2 differentiates the reference numbers between the initial installation savings and incentives, and the subsequent verification savings and incentives
- Updated the Key Characteristic 3 wording to be more consistent with other measures
- Changes to Key Characteristics results in change to Measure Name

### **Commercial Windows**

- Deleted Key Characteristics 2 and 3 to reduce redundancy within the measure list
- Changes to Key Characteristics results in change to Measure Name

### **Commercial Insulation**

- Re-ordered Key Characteristics 2, 3 and 4 to better mirror Residential Insulation column order:
  - KC2 is now “Wall” or “Attic or Roof”
  - KC3 is now the insulation level
  - KC4 is now “Heat Pump” or “Resistance”
- Changes to Key Characteristics results in change to Measure Name

**Commercial Refrigeration Control Improvements (Non-VFD)**

- Reference numbers for Floating head Pressure Controls and Evaporator Fan Walk In measures are expiring

**Commercial Refrigeration System Improvements**

- Reference numbers for Reach-in And Walk-In Gasket Replacement measures are expiring

**Commercial Water Heaters**

- Reference numbers for Commercial Water Heaters and Heat Pump Water Heater measures are expiring.