

2017-2019 Implementation Manual

March 21, 2019



Agenda

General changes

Changes effective April 1, 2019

Changes effective October 1, 2019

Lighting and Retail

General HVAC

Ductless Heat Pumps

PTCS Ducted Heat Pumps and Duct Sealing

Thermostats, NEEM, New Construction
and Montana House

Weatherization

April change:

- XIV: Published deadline for feedback is now May 24

General changes coming in October:

- All edits from current rate period incorporated
- Chapter 13 New measures incorporated
- Renumbering

Specific changes:

- Fax submission pathway removed
- Non-Reportable and Reportable savings must be submitted separately

Questions?

Smart Thermostats: April 2019 Edit

- Removed requirement for project form **when** a smart thermostat is installed through a utility retail program, including:
 - Utility created kits provided to a customer
 - Kits (including those fulfilled through Simple Steps)
 - Customer receives an instant rebate through a coupon provided physically or digitally by their utility
 - Through a traditional retail program (such as Simple Steps or other similar program)
 - Through a utility run retail program (such as over the counter sales from utility facilities)
 - Effective April 1
- BPA will still require the project information form if installed through other channels

Lighting and Retail

Dave Murphy, Program Manager

Claire Gleason, Program Support Specialist

New Measure for April: Aerators

- Measure is a two aerator bundle
- Measure is available
 - Direct install \$8, 99 kWh **OR**
 - By request \$3, 35 kWh

New Measure for April: Load Sensing Power Strips

- Load Sensing Advanced Power Strips (formerly Tier 1)
- Measure is available
 - Retail \$15, 46 kWh
 - By Request \$20, 46 kWh
 - Direct Install \$25, 69 kWh
- Retail promotion through Simple Steps forthcoming

New Measure for April: Bundled Kits

New Bundled Kits

- Combines technologies into a single savings value
- Helps maintain lighting savings
- 12 configurations
 - Simplest:
 - 4 LEDs
 - Most complex
 - 8 LEDs, 1 powerstrip, TSV/showerhead combo, 3 aerators
- Named 1-12 in Measure List
- Some kits fully covered by BPA payment to utility customers and some not

Questions?

Residential

Effective October 1, 2019

10.2.2 ENERGY STAR Lighting, Solid-State Lighting/LEDs/Bulbs and Fixtures

- Payments and savings will change October 1, 2019
 - Most savings going down, but a few going up
 - All payments going down or holding steady
- Decorative & Minibase and Globes – mid and upper lumen bin measures will expire, no products on the market
 - Currently on the measure list with zero savings
 - Will combine three lumen bins into one 250-2600
 - Payment and savings will be set for lowest lumen bin

10.3.1-10.3.2 Advanced Power Strips

Name changes from Tiers to Control Methodology

Former Name	New Name
Tier 2 Home Entertainment Center	Infrared Sensing
Tier 2 PC Interaction Sensing	PC Interaction Sensing
Tier 1	Load Sensing

10.3.1-10.3.2 Advanced Power Strips

- RTF cut savings on Tier 2 (infrared and PC interacting)
- BPA will no longer offer payments for Tier 2 APS (infrared and PC interacting) as of October 1, 2019, but the measure will not be expired
 - Customers can still report savings as self-funded or as a measure with zero payment
 - Keeping measure on the books to assist collecting data for RTF

10.4 Appliances

Washers

- Most savings going up, two going down slightly
- Payments mostly increasing \$5-\$10, six remain unchanged
- Permanently adopt new CEE Tier structure:
 - Tier 1, Tier 2, Advanced Tier
- Requirement for top loaders will change
 - Top loaders must be a minimum of CEE Tier1

Dryers

- ENERGY STAR savings decrease payment unchanged
- BPA Tier 1 savings increase payment increase from \$50 to \$75
- BPA Tier 2 and 3 savings increase payment unchanged
- BPAQ measures to collapse 10 RTF Tiers into 3

10.5.1-10.5.2 Showerheads & Thermostatic Shut-Off Valves (TSVs)

- Expiring primary and secondary showerhead measures
 - These measures allow choice of a more frequently used or less frequently used shower
 - RTF has expired measures, we are following suit
- Leaving any showerhead measures
 - Either more or less equally used shower, no difference
- Savings decrease for most TSVs October 1, 2019

10.5.3-10.5.4 Heat Pump Water Heaters Measure Changes

- HPWH measures both Unitary and Split
 - RTF no longer differentiates between manufactured and single family homes
 - Identifiers for retail
 - Expire separate Manufactured Home REFNOs
 - Rename Single family to any residential
 - Heating zone
 - Conditioned/unconditioned
- Savings will be lower for new measures due to measure structure and energy savings changes
 - Partly overall decrease from RTF
 - Partly changes listed above

10.5.3-10.5.4 Heat Pump Water Heaters Payment Changes

- Unitary HPWH measures
 - Tier 2 and 3 payment increase from \$500 to \$600
- Split system measures
 - Payment increases from \$700 to \$800
- Why? Actual cost of units have increased
 - Tax credits expired
 - NEEA transitioning from incentive model, phased out \$200 payment
 - Tariffs have added to cost
 - Lowest cost unit discontinued

Questions?

General HVAC

Amy Burke, Program Support Specialist

HVAC Cold Climate Specification

BPA will begin offering access to the Northeast Energy Efficiency Partnership (NEEP) Cold Climate Specification List for variable speed heat pumps. Utilities will not be required to utilize models on this list.

This change applies to:

10.7.1.1 – 10.7.1.3	Ductless Heat Pumps
10.7.2.1	PTCS Variable Speed Air Source Heat Pumps
13.2.3.2	Variable Speed Heat Pump Conversion without PTCS

Ducted and Ductless Air Source Heat Pumps (ASHPs)

- Only one ducted ASHP in homes that are less than 4,500 sq ft. Homes with more 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 system.
- Only one ductless heat pump may be claimed per home, regardless of the home's sq. ft.

This change applies to:

10.7.1.1 – 10.7.1.3: Ductless Heat Pumps

10.7.2.1: PTCS Air Source Heat Pumps and Variable Speed Heat Pumps

13.2.3.1: Air Source Heat Pump Conversion without PTCS

13.2.3.2: Variable Speed Heat Pump Conversion without PTCS

Variable Speed Air Source Heat Pumps (VSHPs)

For variable speed air source heat pump measures, the outdoor compressor must be variable speed or inverter-driven. A variable speed indoor air handler does not meet the requirements for this measure.

This change applies to:

10.7.2.1: PTCS Variable Speed Air Source Heat Pumps

13.2.3.2: Variable Speed Heat Pump Conversion without PTCS

Questions?

Ductless Heat Pumps

Paul Hawkins, Program Support Specialist

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 ID, MT, NV, WY and CA
 - Increase in Oregon
- Incentive payments will flatten to \$500
 - **Note:** this measure is not available for new single-family homes in Washington
 - Updated energy savings and incentive payments reflect new energy savings adopted by the RTF

10.7.1.1 Single Interior Head and Single Outdoor Compressor Ductless and Ducted Mini-Split Heat Pump(s)

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 (PIF)
- 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.

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 from \$1000 to \$800
- Updated energy savings and incentive payments reflect new energy savings adopted by the Regional Technical Forum

10.7.1.1 & 10.7.1.2 Single- and Multi-head Ductless Heat Pumps

- This measure (10.7.1.1) will be modified to include systems with multiple indoor heads and/or multiple outdoor compressors
 - The outdoor compressor meet a minimum HSPF of 9.0
 - BPA will recognize only one DHP regardless of the number of outdoor or indoor units
- Multi-head DHPs and systems with multiple outdoor compressors will be reportable under measure 10.7.1.1 with corresponding energy savings and incentive payments
 - BPA will expire 10.7.1.2 as it will become duplicative

10.7.1.1 – 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 website promotes single-head applications of DHPs
- BPA will continue to coordinate with NEEA on DHP offerings

Questions?

PTCS Ducted Heat Pumps and Duct Sealing

Gary Smith, Program Manager
Maitri Dirmeyer, Program Support Specialist

10.7.2.1 Performance Tested Comfort Systems (PTCS) Air Source Heat Pumps (ASHPs) and Variable Speed Heat Pumps (VSHPs)

Clarifying that in single-family new construction, PTCS heat pump installations qualify for the “upgrade” measure only

10.7.2.1 PTCS VSHPs

Clarifying that Variable Speed Air Source Heat Pumps must be 9.0 HSPF or higher

10.7.2 PTCS

PTCS section will be reorganized and re-written to improve clarity and better align the measure suite

10.7.2.3 Prescriptive Duct Sealing

Online PTCS Registry entry will no longer be required for Prescriptive Duct Sealing installation information

- Instead utilities will be required to keep the Prescriptive Duct Sealing Installation Form in the customer file
- For PTCS Duct Sealing, project information will still be required to be entered to the Online Registry
- Utilities may still use the registry but must also print the report for the customer file

10.7.2.3 PTCS & Prescriptive Duct Sealing

For single-family: savings will change slightly to align BPA with recent RTF changes

- Heating Zone 1 will increase slightly
- Heating Zones 2 and 3 will decrease slightly
- Payments will not change

Questions?

Thermostats, NEEM, New Construction and Montana House

Jess Kincaid, Residential Sector Lead

Smart Thermostats

Correct IM to include required specification that Smart Thermostats must have occupancy detection set to on in order to qualify for payments

10.9.1 Northwest Energy Efficient Manufactured Housing (NEEM 1.1 and NEEM 2.0)

To respond to RTF measure changes:

- Energy savings will decline slightly
- Measure structure will change from current structure which uses specific heating types, to an "any electric"
- Payments will not change

10.9.3 – 10.9.6 All Single Family and Multifamily New Construction measures

Clarifying that the permit date is the date to be used to determine code compliance for single family and multifamily new construction measures

10.9.4 Montana House

BPA is adopting RTF changes to the Montana House measure, including:

- SEEM and Montana Building Code updates
- No longer having measure identifiers by cooling zone
- Collapsing vented and unvented crawlspace measures into a single measure
- Adding Montana House measures for Idaho, Wyoming and Nevada designated "Montana House Single Family . . . ID/ WY/ NV"

Note: energy savings changes are significant in some cases

Questions?

Weatherization

Paul Hawkins, Program Support Specialist

10.10 Weatherization

Energy savings changes for low-rise multifamily:

- Respond to RTF update that corrected a SEEM error
- Energy Savings in low-rise multifamily buildings will increase slightly for Floor and Wall Insulation, Exterior Insulated Doors, Low-E Storm Windows, and Single Pane Prime Window and Patio Door Replacement
- Energy Savings in low-rise multifamily buildings will decrease slightly for Attic Insulation and Double Pane Prime Window and Patio Door Replacement

10.10.1 Insulation

BPA expects to increase incentive payments for attic, floor, and wall insulation

- Applies to single-family, manufactured and multifamily
- To incent acquisition of high value energy savings identified by the BPA Resource Program
- Payments will likely be three times the current “any electric” payments **except** for the following measures which will be closer to two times current payments due to incremental cost limitations:
 - Single Family Attic
 - From R-0 to R-38
 - From R-0 to R-49
 - Single Family and Multifamily Wall
 - From R-0 to R-11

10.10.1 Insulation

- BPA will remove REFNOs for existing heating types:
Electric FAF, Zonal, and Heat Pump
 - All insulation measures shall be reported using the "Any Electric Heat" weighted average
- This reporting change simplifies the insulation measure suite to support increased utilization

10.10.1 Insulation

Clarification: The sloped surface of an A-frame home should be insulated and invoiced as an unvented attic

- When insulating A-frame homes, refer to section 4.6 Unvented Attics in the BPA Residential Weatherization Specifications

10.10.2 Prime Window & Patio Door Replacement

- BPA will likely double incentive payments for prime window and patio door replacement
 - Single-family, multifamily and manufactured homes
 - Note: payments are **NOT** changing for 10.10.3 Low-E Storm Windows
 - Please note: BPA may need to reduce payments for prime windows if future evaluation results demonstrate lower energy savings
- BPA is increasing payments to incent acquisition of high value energy savings identified by the BPA Resource Program

10.10.2 Prime Window & Patio Door Replacement

- BPA will remove REFNOs for existing heating types:
Electric FAF, Zonal, and Heat Pump
 - All measures shall be reported using the "Any Electric Heat" weighted average
- This reporting change simplifies the window measure suite to support increased utilization

10.10.3 Low-E Storm Windows

Beginning October 1, 2019, all Low-E Storm Windows must be ENERGY STAR certified to qualify for BPA incentives

- BPA will discontinue the current storm window specification and instead utilize the new ENERGY STAR Storm Window Certification
- BPA expects that all products on the current QPL will qualify for ENERGY STAR certification

10.10.4 Exterior Insulated Doors

BPA will publish Energy Star U-value requirements for exterior insulated doors

In the customer file, utilities must document:

- Proof of the ENERGY STAR certification, **OR**
- Proof that doors meet U-value requirements:
 - ≤ 0.17 for opaque doors,
 - ≤ 0.25 for doors with up to 50% glazing, and
 - ≤ 0.30 for doors with greater than 50% glazing

Questions?

Thank you
for your time

