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MEMO

WX-2017-5-A

TO: Agency Directors, Fiscal Officers and Weatherization Coordinators
FROM: Steve Divan, Weatherization Program Manager
RE: ECHO Program Modifications Addendum
DATE: 10/16/17

Greetings,

Since the release of WX Memo 2017-5, the ECHO program modifications memo, there have been questions related to ductless heat pumps (DHP) that need additional clarification. Below is an outline of the criteria to be utilized when installing DHPs under the ECHO program.

ECHO Ductless Heat Pump Replacement Protocol

- Ductless heat pumps are deemed cost effective at a cost of \$3,800 and are independent of the SIR calculation.
 - DHPs priced higher than \$3,800 may:
 - The cost in excess of \$3,800 may be bought down using appropriate funding and the DHP can remain outside of the SIR calculation.
 - May be included in the SIR calculation.
- Deemed DHP Installation Criteria: Installing a deemed DHP is allowed only in homes with zonal electric heat and electric forced air furnaces.
 - Homes with heating systems **other than** zonal electric or electric forced air furnaces require that the DHP be included in the grouped SIR calculation.
 - If USDOE funds are utilized in any amount on an ECHO project, the DHP **must be included** in the SIR calculation.
- Equipment requirements:
 - The DHP must be a split system heat pump employing inverter-driven outdoor compressor, with inverter-driven or variable-speed indoor blowers.
 - The system must meet a Heating Seasonal Performance Factor (HSPF) requirement of 9.0 for single-head systems and 8.0 for multi-head systems.

- DHP's and fuel switching
 - When DHP's are installed as part of a fuel switch, the Oregon WAP fuel switching protocol must be followed.

- OPUS reporting:
 - DHPs deemed cost effective will not be included in the REM/Design Performance Summary Report; therefore the DHP savings will have to be added to the REM/Design predicted savings. Each deemed DHP installed under the ECHO program will use the State of Oregon average energy savings of 10.2 MMBTU to report in OPUS.

 - DHPs installed as deemed measures shall be entered in the OPUS funding summary sheet as "Furnace replacement cost effective".

If you have any questions, please contact me at (503) 986-0979.

Best Regards,

Steve Divan
Weatherization Program Manager